

**FP-T88FVA ONLINE**

**Programmer’s manual**

***Version: 1.0.1***

*Firmware: 3.00.0920*

**Revision**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Draft | Prepared | Description |
| 2018-01-18 | 1.0.0 | A.Cebula-Kotuła | First draft |
| 2019-01-28 | 1.0.1 | A.Cebula-Kotuła | 4.3.18 – Corrected the use of the parameter <value> for rest; 4.13.5 – Added description for word 10 bit 4 and 5 |

The Exorigo-Upos has made every effort to ensure that the information contained in this manual is correct and reliable. However Exorigo-Upos does not take any responsibility for the consequences of using this information and reserves the right to make changes without prior notification of interested parties. This publication replaces all previous publications regarding the topic mentioned above.

**Table of Contents**

[1 General information 7](#_Toc535579495)

[1.1 Fiscal rules 7](#_Toc535579496)

[1.2 On-line cash registers 7](#_Toc535579497)

[2 Specification and characteristics 9](#_Toc535579498)

[2.1 Interface specification 9](#_Toc535579499)

[2.1.1 RS-232 serial interface 9](#_Toc535579500)

[2.1.2 USB interface 10](#_Toc535579501)

[2.1.3 Ethernet interface 10](#_Toc535579502)

[2.1.4 Drawer interface 11](#_Toc535579503)

[2.2 Fiscal parameters 11](#_Toc535579504)

[2.3 Receipt printer characteristics 11](#_Toc535579505)

[2.4 Charakterystyka wyświetlacza 12](#_Toc535579506)

[2.5 Operating modes 12](#_Toc535579507)

[2.5.1 Non-fiscal mode 12](#_Toc535579508)

[2.5.2 Fiscal mode 12](#_Toc535579509)

[2.5.3 Autonomous mode 12](#_Toc535579510)

[2.5.4 Read only mode 13](#_Toc535579511)

[2.6 Printer states 13](#_Toc535579512)

[2.6.1 Neutral 13](#_Toc535579513)

[2.6.2 Open sales period 13](#_Toc535579514)

[2.6.3 Open sales period and all tasks finished 13](#_Toc535579515)

[2.6.4 Ongoing sales transaction and receipt not summarized 13](#_Toc535579516)

[2.6.5 Ongoing sales transaction and finishing fiscal receipt 13](#_Toc535579517)

[2.6.6 Predefined printout/report 13](#_Toc535579518)

[2.6.7 RAM erased 14](#_Toc535579519)

[2.6.8 Fiscal printer temporarily blocked 14](#_Toc535579520)

[2.6.9 Fiscal printer permanently blocked 14](#_Toc535579521)

[2.7 Arithmetics 14](#_Toc535579522)

[2.7.1 Rounding rules 14](#_Toc535579523)

[2.7.2 Tax calculation rules 14](#_Toc535579524)

[2.8 Commands processing 18](#_Toc535579525)

[2.9 Error handling 18](#_Toc535579526)

[2.10 Error handling with CPD server 18](#_Toc535579527)

[2.11 Power failure support 19](#_Toc535579528)

[3 Functional description 20](#_Toc535579529)

[3.1 Supported printing modes 20](#_Toc535579530)

[3.2 Display support 20](#_Toc535579531)

[3.3 Setting the date and time 20](#_Toc535579532)

[3.4 Defining the retailer’s header 20](#_Toc535579533)

[3.5 Defining VAT rates 20](#_Toc535579534)

[3.6 VAT rate verification 20](#_Toc535579535)

[3.7 Sales transaction support 21](#_Toc535579536)

[3.7.1 General 21](#_Toc535579537)

[3.7.2 Order of sales commands 22](#_Toc535579538)

[3.7.3 The format of the printout of the fiscal receipt 26](#_Toc535579539)

[3.7.4 Issuing receipts 26](#_Toc535579540)

[3.7.5 Issuing invoices 27](#_Toc535579541)

[3.7.6 Payment rules 27](#_Toc535579542)

[3.7.7 Display support during the sales transaction 27](#_Toc535579543)

[3.8 Programming the reminder about the necessity to perform periodical maintenance 27](#_Toc535579544)

[3.9 Update of the cash register program 27](#_Toc535579545)

[4 Description of the main protocol 28](#_Toc535579546)

[4.1 Transmission of commands 28](#_Toc535579547)

[4.2 Basic information 28](#_Toc535579548)

[4.3 Sales transaction 29](#_Toc535579549)

[4.3.1 Opening of the receipt/invoice 29](#_Toc535579550)

[4.3.2 Transaction/advance line 30](#_Toc535579551)

[4.3.3 Cancellation of the sales/advance line (storno) 32](#_Toc535579552)

[4.3.4 Discount, uplift or reduction to the sales line 33](#_Toc535579553)

[4.3.5 Partial sum 35](#_Toc535579554)

[4.3.6 Percentage discount or uplift to the partial sum 36](#_Toc535579555)

[4.3.7 Discount or uplift amount to the partial sum 37](#_Toc535579556)

[4.3.8 Readout of the distribution of the amount of the discount / uplift to the sum 38](#_Toc535579557)

[4.3.9 Sum of transaction 39](#_Toc535579558)

[4.3.10 Payments and footers of receipts and invoices 40](#_Toc535579559)

[4.3.11 Opening of settlement of the returnable packaging 44](#_Toc535579560)

[4.3.12 Settlement of returnable packaging 44](#_Toc535579561)

[4.3.13 Cancel the receipt or invoice 46](#_Toc535579562)

[4.3.14 Print the name of the customer on the VAT invoice 46](#_Toc535579563)

[4.3.15 Print the VAT registration number (NIP) of the customer on the VAT invoice and receipt 47](#_Toc535579564)

[4.3.16 Defining any text on a VAT invoice 48](#_Toc535579565)

[4.3.17 The end of the sale transaction 48](#_Toc535579566)

[4.3.18 Settlements in foreign currency 48](#_Toc535579567)

[4.3.19 Informative currency conversion 50](#_Toc535579568)

[4.3.20 Handling of bar codes and 2D codes 50](#_Toc535579569)

[4.4 Reports 54](#_Toc535579570)

[4.4.1 Fiscal daily report 54](#_Toc535579571)

[4.4.2 Forced report of closing the fiscal day (daily report) 56](#_Toc535579572)

[4.4.3 Periodic fiscal report 56](#_Toc535579573)

[4.4.4 Total periodic report 57](#_Toc535579574)

[4.4.5 Accounting fiscal report 58](#_Toc535579575)

[4.4.6 Fiscal event report 58](#_Toc535579576)

[4.4.7 Printout of X report 60](#_Toc535579577)

[4.4.8 Open control printout of the list of products 61](#_Toc535579578)

[4.4.9 Product verification in the commodity database of the fiscal module 62](#_Toc535579579)

[4.4.10 Finish the control printout 62](#_Toc535579580)

[4.4.11 Report of blocked products 63](#_Toc535579581)

[4.4.12 Tax rates report 63](#_Toc535579582)

[4.5 Handling graphics 64](#_Toc535579583)

[4.5.1 Initialization of the image loading 66](#_Toc535579584)

[4.5.2 Loading graphic data 66](#_Toc535579585)

[4.5.3 The end of loading graphics 66](#_Toc535579586)

[4.5.4 Canceling graphics loading 67](#_Toc535579587)

[4.5.5 Graphic printout 67](#_Toc535579588)

[4.5.6 Deleting graphics 67](#_Toc535579589)

[4.5.7 Readout of the graphic’s checksum 67](#_Toc535579590)

[4.6 Pre-defined reference printouts 68](#_Toc535579591)

[4.6.1 General 68](#_Toc535579592)

[4.6.2 Beginning / continuation of the predefined printout 68](#_Toc535579593)

[4.6.3 Separation line printout on a predefined printout 68](#_Toc535579594)

[4.6.4 The end of the predefined printout 69](#_Toc535579595)

[4.6.5 Formats of predefined printouts 70](#_Toc535579596)

[4.7 Configuration commands 107](#_Toc535579597)

[4.7.1 Date and time setup 107](#_Toc535579598)

[4.7.2 Cashier and terminal ID setup 108](#_Toc535579599)

[4.7.3 VAT rates setup 109](#_Toc535579600)

[4.7.4 Registration currency setup 110](#_Toc535579601)

[4.7.5 Payment type setup 110](#_Toc535579602)

[4.7.6 Taxpayer name setup 111](#_Toc535579603)

[4.7.7 Point of sale address change 112](#_Toc535579604)

[4.7.8 Nonfiscal document header disable 112](#_Toc535579605)

[4.7.9 Xon/Xoff transmition protocol setup 113](#_Toc535579606)

[4.7.10 Invoice EURONIP printout 113](#_Toc535579607)

[4.7.11 Invoice customer signature field printout 114](#_Toc535579608)

[4.7.12 Totaled receipt/invoice customer display text selection 115](#_Toc535579609)

[4.7.13 Configuration setup parameters 115](#_Toc535579610)

[4.7.14 Configuration save 121](#_Toc535579611)

[4.7.15 Default settings 121](#_Toc535579612)

[4.7.16 Configuraion file save 121](#_Toc535579613)

[4.7.17 Configuration file readout 121](#_Toc535579614)

[4.7.18 Static trailer 122](#_Toc535579615)

[4.9 Readout commands 124](#_Toc535579616)

[4.9.1 Configuration readout 124](#_Toc535579617)

[4.9.2 Status readout 124](#_Toc535579618)

[4.9.3 Currency of registration readout 125](#_Toc535579619)

[4.9.4 RTC readout 125](#_Toc535579620)

[4.9.5 Initializig data readout 126](#_Toc535579621)

[4.9.6. Receipt daily totalizers readout 126](#_Toc535579622)

[4.9.7 Current VAT rates readout 126](#_Toc535579623)

[4.9.8 Receipt / invoice daily totalizers readout 127](#_Toc535579624)

[4.9.9 Unique numer readout 127](#_Toc535579625)

[4.9.10 NIP (tax ID) number readout 127](#_Toc535579626)

[4.9.11 Counters and totalizers readout 128](#_Toc535579627)

[4.9.12 Properties readout 131](#_Toc535579628)

[4.9.13 Fiscal module memory resources readout 136](#_Toc535579629)

[4.9.14 Hardware data readout 139](#_Toc535579630)

[4.9.15 Header readout 139](#_Toc535579631)

[4.9.16 Terminal and operator code readout 140](#_Toc535579632)

[4.9.17 Producers data readout 140](#_Toc535579633)

[4.9.18 Download the latest state of the repository server 140](#_Toc535579634)

[4.9.19 Read the JPKID of the last sent document 141](#_Toc535579635)

[4.10 Auxiliary commands 141](#_Toc535579636)

[4.10.1 Service report 141](#_Toc535579637)

[4.10.2 Open drawer 141](#_Toc535579638)

[4.10.3 Paper feed 142](#_Toc535579639)

[4.10.4 Paper cut 142](#_Toc535579640)

[4.10.5 Inventory report 142](#_Toc535579641)

[4.10.6 Test commands 143](#_Toc535579642)

[4.10.7 Test of the possibility of selling goods 144](#_Toc535579643)

[4.10.8 Line display 144](#_Toc535579644)

[4.10.9 Printer restart 145](#_Toc535579645)

[4.10.10 One time cutter/paper feed switch off 145](#_Toc535579646)

[4.10.11 CPD server communication test 145](#_Toc535579647)

[4.10.12 Firmware checksum verification 146](#_Toc535579648)

[4.11 Protected memory commands 146](#_Toc535579649)

[4.11.1 Protected memory - print initialization 146](#_Toc535579650)

[4.11.2 Protected memory - document print 147](#_Toc535579651)

[4.11.3 Protected memory - print end 147](#_Toc535579652)

[4.11.5 Protected memory read commands 148](#_Toc535579654)

[4.13 Status check 155](#_Toc535579662)

[4.13.1 Printout status 155](#_Toc535579663)

[4.13.2 Short status 156](#_Toc535579664)

[4.13.3 Long status 158](#_Toc535579665)

[4.13.4 Extended status 159](#_Toc535579666)

[4.13.5 Fiscal module internal status readout 160](#_Toc535579667)

[4.13.6. Fiscal module version readout 163](#_Toc535579668)

[4.13.7 Internal error readout 164](#_Toc535579669)

[4.13.8 Error description readout (English) 169](#_Toc535579670)

[4.13.9 Error description readout (Polish) 170](#_Toc535579671)

[5 DETECT protocol description 171](#_Toc535579672)

[6 Communication between printer and DVR 172](#_Toc535579673)

[6.1 Assumptions 172](#_Toc535579674)

[6.2 Configuration 172](#_Toc535579675)

[6.2.1 net.monitoring 172](#_Toc535579676)

[6.2.2 net.monitoring.ip 173](#_Toc535579677)

[6.2.3 net.monitoring.port 173](#_Toc535579678)

[6.2.4 net.monitoring.protocol 173](#_Toc535579679)

[6.2.5 net.monitoring.txt.startstr 173](#_Toc535579680)

[6.2.6 net.monitoring.txt.stopstr 173](#_Toc535579681)

[6.2.7 net.monitoring.txt.linewidth 173](#_Toc535579682)

[7 Known problems 174](#_Toc535579683)

# 1 General information

Fiscal printer FP-T88FVA consist of the following elements:

* Receipt printer
* Fiscal module
* Cryptographic module
* Fiscal memory
* Protected memory
* Power supply
* Interface module
* Client’s display

Fiscal printer is designed to execute predefined set of commands that provide it’s functionality to sales support program application. Commands are transmited to printer in logically structured sequences, through one of the interfaces. Program application does not have direct access to printer’s resources however fiscal data stored in accumulators, counters and fiscal memory and current status information are send by printer on demand.

The printer is constantly connected via the Internet or another ICT network to the Central Register of Cash Services (Centralne Repozytorium Kas) administered by the Ministry of Finance. The data transfer is determined by an appropriate communication protocol.

## 1.1 Fiscal rules

Fiscal printers do not print received strings of characters like traditional printers. Besides printing fiscal receipts they monitor, store and process fiscal sale data specified by tax law. Data stored in fiscal printer are reported in the form of periodical fiscal reports that have rank of accounting douments. Electronic data sent to CRK are saved in the json format in the JPK scheme developed by the Ministry of Finance. JPK KASA has a specific format. Rules for conducting sales with use of cash registers or fiscal printers, as well as functional and technical requirements set for these devices are determined directly or result from legal acts regulating issues related to the tax on goods and services and cash registers.

Regulations related to cash registers and fiscal printers state that:

* fiscal printer must be equipped with non-volatile memory for permanent one-time saving and multiple readings of data where amount of trade and the value of tax due are being stored – flash type fiscal memory,
* fiscal printer must be equipped with real time clock (RTC) supported by battery, which is used to date every printout and data saved to fiscal memory,
* fiscal printer must be equipped with display for customers,
* fiscal printer must be equipped with battery and mains power supply,
* the operation of printing product sales line has to be inseparable from data display on customer’s display and the operation of updating the values of accumulators and counters,
* the operation of saving the daily sales value and the tax due in the fiscal memory must be inseparable from the operation of issuing the fiscal daily report and from the update of accumulators and counters,
* taxes and fiscal reports data have ​​to be calculated by the fiscal printer,
* seven VAT tax rates must be supported as well as tax free sale,
* fiscal printers must verify the correctness of assigning tax rates to the names of goods and services,
* fiscal printers are equipped with communication interfaces that allow the transmission of data stored in fiscal and protected memories via the Internet in the manner specified in the Ministry of Finance’s communication protocol.

## 1.2 On-line cash registers

The JPK is a summary of information recorded by user with fiscal printers to register sales and tax due. The cash registers automatically send data files to the IT system – CRK where processing and control of fiscal data takes place.

The data sent may include information on each transaction recorded at the cash register, with details allowing to determine the amount of sales and amounts due, VAT rate, type of goods / services, time and place of installation of the cash register. The data administrator is the Head of KAS (National Tax Administration).

The online cash register will be fiscalized at the time of its connection with CRK and will obtain the right to send with a specified frequency information about made transactions. Authorized representatives of the Ministry of Finance will be able to send at any time to a single printer or specific group of devices, requests for sending interesting to them data or issuing commands: changing the default data transmission schedule, enabling / disabling printing of the QR code.

Communication between cash register and CRK is done by a dedicated communication protocol. It is encrypted with a pair of assymetric keys. Exchange of public keys in the connection CRK – cash register takes place with the first time when cash register connects to CPD server being part of CRK.

In the process of fiscalization, the system creates an individual cash register’ s file and registers it with its unique number and a serial number. The final stage of fiscalization is giving the cash register a registration number. Process ends with confirmatory printout of fiscal report. From this moment cash register may connect to the Azure WebAPI and Azure Event Hub of the Microsoft Azure Cloud and transfer data in accordance with the schedule set by the KAS Head, but not less frequently than every 2 hours anr receive commands.

The cash register has two pairs of unique asymmetrical keys. One of the pairs is used for TLS communication with the CPD server (Data Processing Center) responsible for receiving fiscal documents, their decryption and processing as well as the Azure cloud. The second pair of keys is used to sign and encrypt data packets transmitted between servers and the cash register.

It is possible to download and install a new version of the cash register’s work program.

Each cash register is described in the CRK through data:

* Cash’s header
* Cash’s parameters
* Cash register history
* History of commands
* History of events on the cash
* List of commands for the cash

# 2 Specification and characteristics

## 2.1 Interface specification

### 2.1.1 RS-232 serial interface

Printer is equipped with RJ-45 socket, supporting serial interface RS-232, in EIA/TIA-561 standard. The following communication protocols are supported:

* main protocol FP210
* service protocol (shell)
* log protocol (log)

Data flow is controlled by control lines or protocol XON/XOFF.

**Reaction to data flow control via RTS and DTR lines**

|  |  |
| --- | --- |
| Operating mode | Host control lines |
| ignored | Default. RTS and DTR signals are not checked |
| RTS | RTS=HIGH – host ready to receive data  RTS=LOW – transmission stopped, DTR – ignored |
| DTR | DTR=HIGH – host ready to receive data  DTR=LOW – DTR=LOW – transmission stopped, RTS – ignored |
| DTR&RTS | DTR i RTS=HIGH – host ready to receive data  RTS=LOW lub DTR=LOW – transmission stopped |

**Reaction to data flow control via CTS and DSR lines**

|  |  |  |
| --- | --- | --- |
| Operating mode | Printer control lines | Mode of action |
| Always active | DSR=HIGH, CTS=HIGH | Default settings |
| CTS mode switching | DSR=HIGH, CTS=HIGH/LOW | CTS = HIGH when data is transmitted from the fiscal module to the Host, otherwise CTS = LOW |
| CTS mode switched with negation | DSR=HIGH, CTS=LOW/HIGH | CTS = LOW when data is transmitted from the fiscal module to the Host, otherwise CTS = HIGH |
| active | DSR=HIGH, CTS=HIGH/LOW | CTS = HIGH - ready to receive data, CTS = LOW - request to stop data transmission |

Data flow control for Xon/Xoff mode

After selecting this mode by sending command from application, printer issues XON character (ASCII 0x11 code) to computer. When software application receives XON signal, data can be send to printer. If the data is not sent from the software application, the printer issues the XON signal with a 3-second interruption until the data transmission to the printer starts.The printer sends an XOFF (ASCII code 0x13) when it requests to suspend data transmission from the application program, but continues to receive data until the buffer is completely full. When an application receives an XOFF signal, it stops sending data.

RS-232 serial interface connector. Standard EIA/TIA-561

|  |  |
| --- | --- |
| Pin # | Description |
| 1 | DSR (in B port looped DTR-DSR) |
| 2 | DCD |
| 3 | DTR (in B port looped DTR-DSR) |
| 4 | GND |
| 5 | RXD |
| 6 | TXD |
| 7 | CTS |
| 8 | RTS |

Serial port transmission parameters:

|  |  |
| --- | --- |
| Transmission speed: | 9600, 19200, 38400, 57600, 115200 (default) bps |
| Word length: | 8 bit |
| Parity: | parity, odd, none (default) |
| Number of bit stops for transmitter:  (receiver has always 1 bit stop) | 1, 2 (default) |

### 2.1.2 USB interface

The Exorigo-Upos devices are equipped with USB connector type B that complies with the USB 2.0 High Speed specification. The USB connector can not power other devices, it has not built-in USB host. USB protocol class used for direct communication with the device is the "Communication Device Class", abbreviated CDC, configured to work as a virtual COM port on a host PC.

The standard Microsoft Windows driver “usbser.sys” is used for communication on the PC side. An additional configuration file (driver) an 'inf' file is available on the Exorigo-Upos website. It contains the information necessary to correctly configure the Exorigo-Upos device when it is connected to the USB port of the computer and detected in the operating system. This operation is performed once on the first installation of the device on the computer. Each Exorigo-Upos class device equipped with an USB interface has a separate configuration file or additional driver that uniquely configures the USB interface of the device. Each Exorigo-Upos class of device has a unique two-byte numeric identifier in the device descriptor that is sent to the computer during the USB interface configuration.

Exorigo-Upos appliances are uniquely identified by the operating system via a unique code assigned by the international nonprofit “USB Implementers Forum” (USB-IF) corporation that associates hardware manufacturers with a USB interface. This number is a two byte decimal value: 7983 or a corresponding hexadecimal value of 0x1F2F. Along with the device class distinction, this number uniquely identifies each Exorigo-Upos model with a USB interface.

The following communication protocols can be connected to the USB interface:

* main protocol FP210
* service protocol (shell)
* log protocol (log)

USB interface connector. Standard USB 2.0

|  |  |
| --- | --- |
| Pin # | Description |
| 1 | VBUS |
| 2 | D- |
| 3 | D+ |
| 4 | GND |

### 2.1.3 Ethernet interface

The printer has an IEEE 802.3 Ethernet seen as 100Base-TX with enabled Flow control. The network protocol used for communication is IP version 4. By default, the IP address is assigned by the server DHCP but it can be manually configured.

Ethernet provides:

* The shell protocol (Telnet) – send by protocol TCP, identical to the shell running on the serial port (port 23),
* The DETECT protocol - available only on the ethernet connector used to detect the type of connected printer,
* The FP210 protocol - running simultaneously on two TCP ports (port 6090 and port 6091).

The construction options of the cash register can additionally include the second Ethernet port in the 100Base-TX standard. It is possible to use it as a switch.

### 2.1.4 Drawer interface

No protocol can be connected to this interface, control signals are handled by the main protocol. It is possible to change the voltage on which drawer works in the range of 5/6/12/24V (required to change the dip switches on power board).

RJ12 socket, 6-pin

|  |  |
| --- | --- |
| Pin # | Description |
| 1 | Protective mass |
| 2 | Drawer opening signal 1 (max 1A DC) (GND – if active) |
| 3 | Drawer condition: Open / Closed (GND – drawer open) |
| 4 | Keyed out + 24VDC |
| 5 | Drawer opening signal 2 (max 1A DC) (GND – if active) |
| 6 | Signal mass |

## 2.2 Fiscal parameters

|  |  |  |
| --- | --- | --- |
| Maximum number of entries in the fiscal memory (closure reports): |  | 2100 |
| Maximum number of VAT invoices: |  | No fixed limit |
| Number of tax rates categories supported by printer: |  | 7 (including tax free category) |
| Maximum number of entries to tax table: |  | 30 |
| Maximum number of different goods supported by printer: |  | 350 000 |
| The way of updating goods’ database saved in printer: |  | Automatically when article’s name is send to be printed first time |
| Maximum length of the article’s name string: |  | Equal to max number of characters per line(2.3) |
| Allowed in article’s name alphanumerical characters, diactric and punctuation characters: |  | Capital letters, numbers, characters: . , / \ and polish characters in selected encoding page |
| Allowed range of values: |  |  |
| • unit price: |  | 0,01 .. 429496,7295 |
| • quantity: |  | 0,0001 .. 429496,7295 |
| • transaction amount for one item: |  | 0,01 .. 429496,7295 |
| • receipt total sum: |  | 0,01 .. 1717986,91 |
| • payment: |  | 0,01 .. 1717986,91 |
| • daily amounts (combined): |  | 0,01 .. 54975581,38 |
| • max sum: |  | 0,00 .. 922337203685477.58 |
| • max numer of items on receipt or invoice: |  | 547 |
| • max numer of printouts in 1 sale period: |  | 524287 |
| • max numer of blocked articles: |  | 2500 |

## 2.3 Receipt printer characteristics

|  |  |  |
| --- | --- | --- |
| Printing method: |  | Thermal print |
| Max number of characters per line: |  | • wide paper – 56 (small font) / 42 (bigger font)  • narrow paper - 40 |
| Max speed of printout: |  | 32 lines / s |
| Paper: |  | • thermal single layer,  • width 79,5  0,5 mm or 57,5  0,5,  • max outside roll diameter 83 mm,  • inside roll diameter: 12 mm |
| Auto-cutter: |  | partial |

## 2.4 Charakterystyka wyświetlacza

According to the Regulation of the Minister of Entrepreneurship and Technology (22.06.2018, pos. 1206) each fiscal printer must have at least one display, visible to the buyer, displaying each stage of the sale transaction, without the option of disabling it. The fiscal printer FP-T88FVA ONLINE is equipped with an external buyer display, which is available in option:

* integrated display

The display matrix is available in the option:

monochrome LCD 2x20 (amber)

## 2.5 Operating modes

According to the fiscal regulations, the fiscal printer has two operating modes - Non-fiscal and Fiscal which differ in the set and way of implementing the functions provided by the printer to application program. Switching a printer from non fiscal mode to fiscal is a one-time irreversible operation. Data about fiscal activation are stored in fiscal memory in the form of a corresponding record of data and sent to CRK. From this moment a permanent connection of the printer with the Azure platform and through it with the MF servers is established.

In addition, if you need to obtain reports or perform service activities without connection to a computer, the printer can be switched to an autonomous operating mode.

### 2.5.1 Non-fiscal mode

The new printer is initialized by the manufacturer to the non-fiscal mode. An operation that activates non-fiscal mode consists of saving to the fiscal record a Serialization Record containing the unique number of the printer. The operation of a fiscal printer in this mode subjects to the following restrictions:

* The fiscal memory is read-only.
* Fiscal orders are processed the same way as in fiscal mode, but nothing is saved in fiscal memory.
* No data can be printed from fiscal memory. They are ignored.
* There are printed special lines on the receipts indicating that the printer is in a non-fiscal condition.
* Only non-fiscal printouts can be generated.
* A connection to CPD is required to exchange public keys, but the Azure cloud WebAPI service is not possible. The printer communicates with the Repository in test mode.

### 2.5.2 Fiscal mode

Fiscal mode is the normal operating mode of a fiscal printer in which it operates according to fiscal rules and fiscal data are stored in fiscal memory.

The printer communicates with the Azure cloud servers according to the set schedule, but not less often than every two hours.

### 2.5.3 Autonomous mode

This mode gives you the ability to get some printouts from your printer when it is not connected to your computer (off-line mode). The way of entering and leaving autonomous mode is described in the user manual and special documentation for tax authorities. All operations are performed using the printer buttons. All options are displayed step by step on the client display.

In standalone mode, the printer can print the following printouts:

* Daily reports,
* Periodic reports,
* Service reports,
* Events reports.

### 2.5.4 Read only mode

The printer is put into this mode automatically after the last daily fiscal report for which there is a place in fiscal memory or in the case of a settlement fiscal report printed in service mode. The possibility to open a sale is blocked. The printer responds to status queries and prints periodic reports.

## 2.6 Printer states

The set of commands that can be executed at any given time depends on the operating mode and the current status of the printer. The fiscal printer states that are used in description of the application command protocol are described below.

### 2.6.1 Neutral

The printer enters this state at the end of the daily report printout. It is possible to switch from neutral state to most of the others printer states. It is characterized by the following conditions:

* printer is in fiscal mode
* fiscal module’s real time clock (RTC) is active
* RAM fiscal memory contains:
* retailer’s header defined
* fiscal memory contains:
* fiscal memory’s unique number
* retailer’s header
* tax identification number (NIP)
* defined VAT rates

### 2.6.2 Open sales period

The printer’s basic state is “Neutral”. During executing the command “Open receipt/invoice” printer changes it’s status to “Opened sales period”. The state ends when printers receives command “Fiscal closure report” and comes back to “Neutral”.

### 2.6.3 Open sales period and all tasks finished

This state indicates that the printer does not process any command and no printout is performed.

### 2.6.4 Ongoing sales transaction and receipt not summarized

The printer processes the fiscal receipt. The printer changes to this state from “Neutral” state or from “Opened sales period and all tasks finished” state. The state changes when command “Total transaction” completes to “Ongoing sales transaction and finishing fiscal receipt” or “Cancel receipt/invoice” after which printer comes back to “Opened sale period”.

### 2.6.5 Ongoing sales transaction and finishing fiscal receipt

This state indicates that sales phase is complete and can not be reopened. Receipt is summarized. The command “Total transaction” changes to this printer’s state from “Ongoing sales transaction and receipt not summarized”. Payment data are accepted as well as other messages supposed to be printed in receipt’s footer. State is changed to “Opened sales period and all tasks finished” due to command “Cancel receipt/invoice” or “End of sale”*.*

### 2.6.6 Predefined printout/report

The printer prints one of the predefined reports where data are passed by application. After executing command “Pre-defined Document Print” printer is set from “Neutral” or “Opened sales period and all tasks finished” and accepts data to print. After closing the task printer comes back to state in which it was at the beginning.

### 2.6.7 RAM erased

The printer is in this state by executing a service jumper setup that erases the fiscal data stored in the fiscal memory RAM outside of the goods database. To exit this state, you must execute the following commands:

* set time and date
* define cashier’s name and printer’s number

Printer comes back to “Neutral” state.

### 2.6.8 Fiscal printer temporarily blocked

This condition indicates that data in the RAM fiscal memory have been corrupted or the real time clock is broken or a fiscal memory has been disconnected. In this state, the printer will only accept requests for status and errors. In order to restore normal operation, service intervention is required..

### 2.6.9 Fiscal printer permanently blocked

Printer does not answer due to one of following reasons:

* fiscal memory is full,
* printer was intentionally set in read only mode by using the printout of the settlement fiscal report command.

The printer responds to queries and prints periodic reports. It is not possible to leave this state.

## 2.7 Arithmetics

Fiscal data are stored in accumulators and counters. Accumulators are cumulative counters used to memorize money amounts. Counters count the number of types of operations performed (eg receipt cancellations) or printouts (eg receipts).

### 2.7.1 Rounding rules

All values ​​are rounded to hundredth. Normal rounding rules apply that:

* Calculations are carried out to the third decimal place (the fourth and subsequent decimal places are truncated)
* If the last significant digit is less than 5 then the number is rounded down otherwise it is rounded up

Example:

A number of 0.99499999 is rounded to 0.99

### 2.7.2 Tax calculation rules

VAT is calculated according to the 'included tax' principle:

|  |
| --- |
|  |

where:

*tax* – tax rate in percent

*amount* – amount to be taxed

**Methods by which tax amount is calculated**

Definitions:

|  |  |  |
| --- | --- | --- |
| tra.vat.v | - | Sum of VAT on a receipt divided by tax category |
| tra.vat | - | Sum of VAT for the receipt |
| Rnd () | - | A function that rounds the number according to the rule described in the chapter ' Rounding rules ' |
| Int () | - | A function that returns the integer part of a number |
| vv | - | Current VAT category |
| Va..Vg | - | VAT rate for category A..G |

**Sales transaction – Summarized receipt**

The taxes shown on the receipt are calculated as follows:

|  |
| --- |
| tra.vat.v[A] = Rnd((Va /(100 + Va)) \* tra.tot.v[A]) |
| ... |
| tra.vat.v[G] = Rnd((Vg / (100 + Vg)) \* tra.tot.v[G]) |
| tra.vat = tra.vat.v[A] + tra.vat.v[B] + ... + tra.vat.v[G] |

Closing sales period – Daily report

Calculating the daily taxes that are saved in the fiscal memory:

|  |
| --- |
| day.vat.v[A] = Rnd((Va /(100 + Va)) \* day.tot.v[A]) |
| ... |
| day.vat.v[G] = Rnd((Vg /(100 + Vg)) \* day.tot.v[G]) |
| day.vat = day.vat.v[A] + day.vat.v[B] + ... + day.vat.v[G] |

Price discount to sales item

In the case of discount to sales item after checking that accumulator does not become negative the value of corresponding accumulator is reduced by RABAT:

|  |
| --- |
| tra.tot.v[vv] = tra.tot.v[vv] - RABAT |

If the result of the operation is negative, the accumulator remains unchanged and an error is returned.

Uplift to sales item

Calculations are the same as for the price discount to sales item but with the opposite sign. If an overflow occurs, accumulator’s value is returned to the initial value.

Percentage discount to the sum/partial sum

During the operation of the percentage discount, the accumulator’s values are changed and the value of rebate is calculated and printed on the receipt. The entire calculation is performed as one transaction operation:

1. Discounted amounts are calculated in given VAT rates and rounded to 0.01:

|  |
| --- |
| tra.tot\_disc.v[vv] = Rnd (tra.tot.v[vv] \* RABAT/100) |

1. Accumulators values are updated:

|  |
| --- |
| tra.tot.v[vv] = tra.tot.v[vv] – tra.tot\_disc.v[vv] |

1. The amount of discount is calculated:

|  |
| --- |
| tra.tot\_disc = tra.tot\_disc.v[Va] + ... + tra.tot\_disc.v[Vg] |

Price discount to the sum/partial sum

To determine price discount to the sum/partial sum value T\_RABAT and optional components RABAT[Va],…,RABAT[Vg] for given VAT rates have to be passed to Fiscal Module:

1. If RABAT[Va], …, RABAT[Vg] were sent then it’s checked if sum of the individual rebate VAT rates equals total discount:

|  |
| --- |
| T\_RABAT = RABAT[Va] + ... + RABAT[Vg] |

1. Irrespectively from outcome of the check and if only one total amount of the discount was send there are calculated proportional discount values for the individual tax rates:

|  |
| --- |
| R\_RABAT[vv] = T\_RABAT \* tra.tot.v[vv] / tra.tot |

1. In the array sort\_array third decimal places of the discount components calculated for the individual VAT rates are stored.
2. All calculated components are rounded down by rejection of positions starting from the 3rd decimal place:

|  |
| --- |
| RR\_RABAT[vv] = (Int(R\_RABAT[vv]\*100)) / 100 |

where:

Int () – the integer part of the number

1. It is checked whether the sum of the individual discount rates and rounded components of the rebate is equal to the total amount of the discount:

|  |
| --- |
| T\_RABAT = RR\_RABAT[Va] + ... + RR\_RABAT[Vg] |

1. If not, the number of components to round up is calculated:

|  |
| --- |
| N = (T\_RABAT – (RR\_RABAT[Va] + ... + RR\_RABAT[Vg])) \* 100 |

1. Algorithm segregates the rounded components in terms of the value of the previously discarded third decimal place.
2. It rounds up the N-components of the discount by 1 PLN grosz upwards, starting with the component of to the highest value of the third decimal place:

|  |
| --- |
| RABAT[vv] = RR\_RABAT[vv] + 0,01 |

1. It checks whether the sum of the individual calculated and rounded discount components equals the total amount of the discount:

|  |
| --- |
| T\_RABAT = RR\_RABAT[Va] + .. + RR\_RABAT[Vg] |

1. If yes and discount components for VAT rates calculated by application were sent in the command then they are accepted if:

* the sum of the components is equal to the amount of the discount
* none of the transferred components does not differ by more than ± 0.01 from the corresponding calculated component

1. Receipt accumulators’ values are decreased:

|  |
| --- |
| tra.tot[vv] = tra.tot.v[vv] - RABAT[vv] |

**Description of the third decimal place sorting algorithm**

In the first run, the value of the rate A is compared with the values ​​of the rates B .. G. If any of the values ​​in the rates B .. G is greater than the value in the rate A, then these values ​​are swapped. Also in the separate index table a change in the order of the sorting rates is saved. In subsequent runs, the values ​​of consecutive rates are compared with values ​​in next VAT rates, ie:

* B value with C...G value
* C value with D...G value
* D value with E...G value
* E value with F...G value
* F value with G value

*Algorithm:*

|  |
| --- |
| // Typing to the board aDiscountWeightArray The third decimal place from the calculated division  for ( k = 0; k < NumberVatRate; k++ )  {  aDiscountWeightArray[k].vat\_rate=k;//A-0, B-1....  aDiscountWeightArray[k].weight=get\_3rd\_digit\_after\_decimal\_point(discount\_by\_vat[k]);  discount\_by\_vat[k]=trunc(discount\_by\_vat[k],2);// cut to 2 decimal places  }  // Sorting aDiscountWeightArray after aDiscountWeightArray[?].weight (third decimal place)  for ( k = 0; k < (NumberVatRate-1); k++ )  {  for ( l = (k+1); l < (NumberVatRate); l++ )  {  if ( aDiscountWeightArray[l].weight > aDiscountWeightArray[k].weight )  {  // swapping positions in aDiscountWeightArray  swap(aDiscountWeightArray[l],aDiscountWeightArray[k]);  }  }  }  // Correction of the amount of the discount  k=0;  while (vAppDiscountValue!=vFmDiscountValue)  {  discount\_by\_vat[k]+=0.01;  vFmDiscountValue+=0.01;  k++;  }  // |

Uplift to sum/partial sum

Calculations are identical like for price discount, except that the accumulators’ values ​​are increased. If an overflow occurs, the same accumulators are restored to original values and an error is returned.

Closing the receipt/invoice

Adding sum of the receipts’/invoices’ accumulators to the daily accumulators occurs after command „Finish te receipt” is send to the Fiscal Module. This operation precedes printing of the fiscal logo. (Note: Daily accumulators reset during the closing of the fiscal day).

|  |
| --- |
| day.tot.v[Va] = day.tot.v[Va] + tra.tot.v[Va] |
| ... |
| day.tot.v[Vg] = day.tot.v[Vg] + tra.tot.v[Vg] |

Calculations performed during printing of the daily report

Performing a daily report is related to the following operations:

1. Based on the daily accumulators’ values, NET sales amounts and tax values ​​are split into receipts and invoices.

The following tax calculation method is applied for the daily report:

* The tax amounts for each tax group are calculated based on the values of the daily accumulators:

|  |
| --- |
| day.vat.v[Va] = day.tot.v[Va] \* (Va / (100 + Va)) |
| ... |
| day.vat.v[Vg] = day.tot.v[Vg] \* (Vg / (100 + Vg)) |

* Net amounts are calculated as the difference between the value of the daily accumulators and the amount of tax:

|  |
| --- |
| NETTO[Va] = day.tot.v[Va] – day.vat.v[Va] |
| ... |
| NETTO[Vg] = day.tot.v[Vg] – day.vat.v[Vg] |

1. Total sales receivable and total VAT are calculated as the sum of the relevant components.
2. Accumulators are reset by the Fiscal Module after the fiscal day opening order (sales period).

Calculations performed during the printing of the periodic report

The calculations performed during the printing of the periodic report are based only on the summation of the corresponding data read from the daily records stored in the fiscal memory.

## 2.8 Commands processing

* Formal verification of the command format ESC MFB <command code> ESC MFE is performed.
* The current status of the fiscal unit is verified. The command will be processed when:
  + Auto-test, which is executed in the background does not signal errors.
  + The command is acceptable at this point, eg the command ‘sum of receipt’ must be preceded by the command of ‘sale of the goods’.
  + Specific conditions of the command are fulfilled, eg the order 'sale of goods' is not accepted if the end of the paper is signaled.
* The scope of the command arguments is checked.
* If the command is not rejected during the verification phase, the start flag of the first operation that is to be executed under this command is set and the command processing is started
* The end of the processing of the command is signaled by the return of the character: ACK or NAK. Read orders do not return ACK / NAK only return the requested data.
* For commands that generate printouts, the ACK / NAK character is sent when command handling is completed.

The error is signaled by a NAK. The error is cleared while reading.

## 2.9 Error handling

Errors encountered during execution of the order result in a fiscal printer:

* Immediate interruption of the operation,
* Restore the accumulators and counters to the values ​​they had before processing the order,
* Update fiscal unit status, save the error identifier and send a NAK to the system.
* Print a message containing an error number if the error is due to an invalid order of commands or if any of the command arguments are out of the allowed range
* In the case of an open receipt / invoice, no information will be printed about the error. Operation and error reading only via communication protocol.

The software application must read the error and then may repeat the same command or send another command that is valid for the pending procedure.

Service intervention is required when one of the following errors occurs:

* Fiscals micro code control sum error
* Fiscal memory disconected
* Receipt printer disconected
* Real Time Clock error
* Fiscal data incompatibility stored in fiscal memory or RAM memory erased

The only error automatically handled by the micro-fiscal code is to exceed the time limit for the completion of the sale. If the receipt is open for more than 30 minutes, it is automatically canceled. This event is not signaled in any special way to the application program - only status information is updated. The error information is also written to the microSD card in the LOG, in the /errol\_log folder, in the text files, the file name is the date of the error.

## 2.10 Error handling with CPD server

The technical description of the communication protocol for online cash registers is available on the website of the National Tax Administration (KAS). The HTTP response codes returned in the event of an error in communication with the CPD server are shown in the table below. For any additional information, please visit the KAS website

|  |  |  |
| --- | --- | --- |
| http code | Code | Message |
| 406 | B01 | Invalid command. |
| 406 | B02 | There are no CPD certificates in the repository. |
| 406 | B03 | The unique number does not belong to the pool of numbers. |
| 406 | B04 | Lack of service authorization. |
| 406 | B05 | The wrong form of the unique number. |
| 406 | B06 | No cash register certificates. |
| 406 | B07 | No initiation of fiscalization. |
| 406 | B08 | There is no data about the cash register in the Repository. |
| 406 | B09 | Cash register is not fiscal |
| 406 | B10 | Wrong certificate |
| 200 |  | Success. |
| 204 |  | Success without content. |
| 400 | E01 | Wrong commandId or header. |
| 400 | E02 | The input message is incorrect. |
| 400 | E03 | The input message is incorrect |
| 500 | E04 | SQL call failed. |
| 500 | E05 | General error. Contents of the error: |
| 500 | E06 | General error Mbroker. |
| 500 | E07 | Error when trying to insert message into Azure Service Bus. |

Error message supplemented to 200 characters with the error content generated in the application.

## 2.11 Power failure support

The printer is equipped with a rechargeable battery. Failure of the external power supply will automatically switch the power supply from mains to rechargeable. A printer that is powered by a fully charged battery is capable of printing approximately 6,000 lines.

If during the processing of the order, the printer will be manually turned off with the power switch or when the battery is discharged, the printer will behave as follows when the power is restored:

|  |  |  |
| --- | --- | --- |
| Case 1 | - | *interrupted print of non-fiscal or periodical report* |
|  | The POWER SAFETY message is printed, after which the printing process is terminated. | |
| Case 2 | - | *interrupted printout or technical printout, data is printed* |
|  | The power failure message is printed and the printing process is continued. One print line may be repeated. | |
| Case 3 | - | *interrupted printout of a receipt or technical print, no printable data* |
|  | The POWER SAFETY message is printed, after which the printing process is terminated. | |
| Case 4 | - | *interrupted print of daily report* |
|  | The power failure message is printed and the printing process is continued. | |
| Case 5 | - | *interrupted print of the fiscal logo line* |
|  | The printer is being initialized, the power failure message is printed. Printing the fiscal logo line is not repeated. | |

# 3 Functional description

## 3.1 Supported printing modes

Print mode of fiscal documents different than default can be defined by user only for taxpayer’s name line. Further information can be found at point 4.7.6. You can choose one of atributes:

* Double height
* Double width
* Double height and width
* bold, underline, negative

## 3.2 Display support

The customer display is operated in accordance with the following rules:

* During the sales transaction, the item name, the sales amount and the current value of the receipt are sent to the display directly from the fiscal module.
* The display may show, for example, an inscription „SUMA” and the amount of the receipt. The sales line can be up to 20 characters long, with the first 7 characters for text information and 13 for the value to be paid.
* The display is immediately allowed for use by the software application after the sale transaction is completed or canceled.
* During the sale, the possibility of displaying free text on the display is blocked.

## 3.3 Setting the date and time

The real time clock of the fiscal module can be updated only when the printer is in a neutral state. The current date can not be changed during the opened fiscal day. According to fiscal regulations, it is possible to change the time / date in one fiscal day to the extent (CURRENT TIME ± 2 hours), in the range from 00:00:00 to 23:59:59 with the limitation that the new date can not be earlier than last saved in fiscal memory. The sale will not be possible until the time reaches the value equal to or greater than last saved in the fiscal memory.

In the state of erased RAM, the user can not set the time and date. This operation can only be performed by a service technician. The printer when accessing the network automatically synchronizes time with the official time of Poland by connecting to GUM time servers.

## 3.4 Defining the retailer’s header

The header consists of two fields: the name of the taxpayer and the address of the point of sale. In the process of fiscalization, both parameters are given and saved in the cash register's memory. In the case of RAM service erase, the data is automatically restored from the fiscal memory. Header lines that have not been defined will not be printed. Taxpayer identification number (NIP) can not be defined in the header, because it is read from the fiscal memory and printed automatically in the line that follows the store header.

Defining a store header is allowed when the printer is in a neutral state.

## 3.5 Defining VAT rates

The printer supports up to six VAT categories and the category "goods exempt from tax". The tax table is saved in fiscal memory. The printer allows the application to add only new table entries. The number of tax table entries is limited to 30. Tax categories are marked with capital letters A ... G.

## 3.6 VAT rate verification

Printers collect information about the tax rate assigned to each item. This information is stored in the compressed form of name of the good and the value of the tax rate. When the product is sent to the printer for printing, a check is made based on the data from the database stored in the printer to ensure that the tax category for this particular item is correct.

The value of the tax rate for a given product or service name can not be changed to a higher one if its tax value was previously reduced or it was exempt from tax. If the printer detects an increase of the previously reduced rate, it completely blocks the sale of a given product or service name

## 3.7 Sales transaction support

### 3.7.1 General

The general principles that apply to the handling of sales transactions are given below.

* The sales transaction begins with the order to open the receipt / invoice. The sale transaction is terminated by issuing an order to cancel the receipt / invoice or end the sale transaction.

The beginning of the sale transaction is shown by printing the store's header, the name of the printed document - the receipt or invoice - and the product line.

* The sale transaction must be completed within 30 minutes, otherwise the receipt is canceled by the fiscal module.
* If the current value of the receipt sum equals zero, then the sale transaction may be continued or canceled. Receipts with a sum equal to zero can not be closed.
* The response to a power outage event that occurred during the processing of the sales transaction depends entirely on the software application that can continue or cancel the sale transaction.

### 3.7.2 Order of sales commands

1. Receipt algorithm

Opening of the receipt

Cancel

Line of transaction / advance

Cancel

Discount amount/correction

Uplift/correction/ reduction

Returnable packaging

Partial

sum

Cancel

Discount/uplift

to sum

Cancel

Total sum of transaction

Cancel

Footers,payments, returnable packaging, currency conversion, currency payment

The end of the sale transaction

Cancel

1. Example of the fiscal receipt

|  |  |
| --- | --- |
| Exorigo-Upos Sp. z o.o.  DRUKARKA FISKALNA  01-217 Warszawa  Kolejowa 5/7  NIP 9281838767  nr wydr.000434/0006  **PARAGON FISKALNY**  TOWAR-A 1 szt. \* 20,00 20,00 A  STORNO TOWAR-A 1 szt. \* 20,00 -20,00 A  TOWAR-A 1 szt. \* 20,00 20,00 A  OPUST TOWAR-A -1,00 A  KOREKTA OPUSTU TOWAR-A 1,00 A  TOWAR-B 1 szt. \* 20,00 20,00 B  NARZUT TOWAR-B 1,00 B  KOREKTA NARZUTU TOWAR-B - 1,00 B  Zaliczka do TOWAR-B 5,00 B  Pozostało Do zaplaty 15,00  Storno zaliczki do TOWAR-B -5,00 B  PODSUMA 40,00  TOWAR-C 1 szt. \* 20,00 20,00 C  PODSUMA 60,00  NARZUT 10,00  PODSUMA 70,00  OPUST 10,00%  PODSUMA 63,01  -----------------------------------------  Suma Opustów 6,99  Suma Narzutów 10,00  Sprzed. opod. PTU A 21,01  Sprzed. opod. PTU B 21,00  Sprzed. opod. PTU C 21,00  Kwota PTU A 23,00% 3,93  Kwota PTU B 08,00% 1,37  Kwota PTU C 05,00% 1,56  Suma PTU 6,86  **SUMA PLN 63,01**  -----------------------------------------  OPAKOWANIA ZWROTNE WYDANIA  Opak. zwrot. 1 szt. \* 1,00 1,00  OPAKOWANIA ZWROTNE SUMA 1,00  **DO ZAPŁATY 64,01**  Przeliczenie informacyjne  1 EUR = 4,5000 PLN  DO SUMY 63,01 PLN równowartość 14,00 EUR  DO ZAPŁATY 64,01 równowartość 14,22 EUR  Rozliczenie płatności  Gotówka  Płatnośc walutą obcą:  -----------------------------------------  EUR Przelicznik 1 EUR=4,5000 PLN  Gotówka 25,00 EUR 112,50 PLN  Wpłacono razem 112,50  Reszta 48,49  -----------------------------------------  000002/0006 #001Jan Kowalski  NIP Nabywcy: 111-22-33-444  2018-06-01 9:11  62PTWHT3ZT0oK034QJF1E76863266fdvgfxc3774vvx  <PL> ABC0123456789  Przyznano pkt. 348  Dziękujemy i zapraszamy ponownie | Printout header, auto-printed (4.7.6)  Tax Identification Number (NIP)  The next number of the printout  Description 'PARAGON FISKALNY'  Receipt opening (4.3.1) and first line of sales(4.3.2)  Cancellation of sales line (4.3.3)  Sales line (4.3.2)  Discount to the sales line (4.3.4)  Corr. of the discount to the sales line (4.3.4)  Sales line (4.3.2)  Uplift to the sales line (4.3.4)  Corr. Of the uplift to the sales line (4.3.4)  Advance (4.3.2)  Advance’s storno (4.3.3)  Partial sum (4.3.5)  Sales line (4.3.2)  Partial sum (4.3.5)  Uplift to the partial sum (4.3.7)  Partial sum (4.3.5)  Percentage dscount to the partial sum (4.3.7)  Partial sum (4.3.5)  Sum of discounts calculated automatically  Sum of uplifts calculated automatically  Summed cash amount in every VAT rate  Sum of tax in every VAT rate  Summed up VAT amount  Summed amount (4.3.9) – payment’s phase  Settlement of returnable packaging (4.3.11)  Transaction summed up with bail settlement  Information conversion and currency payment (4.3.19)  Payment (4.3.10)  Currency conversion (4.3.18)  Currency payment (4.3.19)  Automatic calculation of the rest  Buyer’s NIP (4.3.15)  The end of the sale transaction (4.3.17)  Digital signature printed automatically  The logo and unique number are printed automatically  Footer (4.3.10)  Footer (4.3.10) |

1. VAT invoce’s algorithm

Invoice opening

Cancel

Transaction line

Cancel

Partial

sum

Cancel

Cancel

Sum of the transaction

Buyer, Buyer’s NIP, footers

The end of the sale transaction

Cancel

1. VAT invoice example

|  |  |
| --- | --- |
| Exorigo-Upos Sp. z o.o.  DRUKARKA FISKALNA  01-217 Warszawa  Kolejowa 5/7  NIP 9281838767  **FAKTURA NR: 2018/06/15**  ==========================================  TOWAR-TESTOWY  1 szt. \* 10,00 10,00  Kwota A: 23,00% 1,87  Netto: 8,13  ==========================================  OPUST TOWAR-TESTOWY -5,50  Kwota A: 23,00% -1,03  Netto: -4,47  ==========================================  TOWAR-TESTOWY-B  1 szt. \* 20,00 20,00  Kwota B: 07,00% 1,48  Netto: 18,52  ==========================================  SUMA PLN 23,00  słownie: trzydzieści dwa złote / zero  ------------------------------------------  netto VAT brutto  Kwota A: 23,00%  4,47 1,03 4,50  Kwota B: 07,00%  18,52 1,48 20,00  ==========================================  26,65 3,35 30,00  ------------------------------------------  Nabywca:  Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7  01-217 Warszawa  Biuro w Gliwicach  ul. Bojkowska 37, bud. 2  44-100 Gliwice  NIP nabywcy: 111-22-33-444  Data sprzedaży 2018-06-15  Data wystawienia faktury 2018-06-15  000014/0023 #001Jan Kowalski 2018-06-14 08:59  2PTWHT3ZT0oK034QJF1E76863266fdvgfxc3774vv  <PL> ABC15123456  Dziękujemy i zapraszamy ponownie | Printout header, auto-printed (4.7.6)  Tax Identification Number (NIP)  description 'FAKTURA VAT NR: ...' auto-printed. Possible EURONIP (4.7.8)  Sales line (4.3.2)  Sales line (4.3.2)  Sum of sales (4.3.9) – payment phase  Auto-printed verbal description of the value  The customer's name on the VAT invoice (4.3.14)  Buyer’s NIP (4.3.15)  The date of the sale printed automatically  The end of the sale transaction (4.3.17)  Digital signature printed automatically  The logo and unique number are printed automatically  Footer (4.3.10) |

### 3.7.3 The format of the printout of the fiscal receipt

The fiscal receipt consists of the following characteristic elements:

* Optional graphic element
* Header lines containing information about the taxpayer and place of sale or address of his registered office. These lines can be defined when the printer is in a neutral state The header lines are printed together with the first transaction line
* Tax identification number line. The tax identification number is read from the fiscal memory and printed automatically along with the first transaction line
* The next number of the document issued by the printer
* Line „PARAGON FISKALNY”
* Sales line

All lines of sales transaction such as goods, it’s name, quantity, VAT rate, value, storno, discounts, uplifts, advances

* Possible lines of summed up discounts, uplifts, reductions
* Total lines

Lines containing tax settlements and the sum of the receipt

* Possible lines for settlement of returnable packaging and informatic conversions
* Possible lines for settlement of payments for sales included on the receipt
* The line of the next receipt number and the cashier's sign

All receipts are numbered cumulatively in a given fiscal day

* Buyer's NIP line, at his request
* Sales date and time line
* Digital signature line
* The fiscal logo line with the unique number of the printer
* Footer lines

These are lines containing additional information and promotional messages. Footer lines must be sent to the printer when it is in the "Sales Transaction - Pay" state, but they will be printed, following the lines of the fiscal logo

* Possible QR code

### 3.7.4 Issuing receipts

Receipt issuance mode is implemented in accordance with the following rules:

1. The sequence of orders controlling the receipt must always start with the order to sell the goods and end with the order to close or cancel the receipt.
2. After opening the receipt, only commands related to the receipt service and commands that are status queries are accepted.
3. The following restrictions apply as to the order of commands:

* After printing the total sum of the receipt together with the tax sum, it is not possible to continue the sale.
* The cancellation of goods or the completion of sales must be preceded by sending lines of goods.
* The footer can only appear after the summary. The footer lines are printed below the fiscal logo line. The number of printable footer lines is combined with the payment lines and is limited to 35.
* After the order to end the receipt, you can not carry out the command to cancel the receipt.
* In the printer, a command of cancellation is not allowed for the settlement of returnable packaging. They can only be closed.

1. The time limit from the opening to the end of the receipt is limited to 30 minutes. An open receipt is automatically canceled if the defined time limit is exceeded.
2. A zero transaction is not accepted. It is not possible to close the sales phase when the current Sum of the Receipt is equal to zero. The zero-sum receipt can only be canceled.
3. If the print of a receipt is interrupted due to a power supply failure, printer malfunction or lack of paper, the receipt printout will be continued after removing the cause of the printing pause. When an error occurs, its number can be read after sending the appropriate command to the printer. An error message is printed in the form of a non-fiscal technical print. The error associated with the preceding command will be removed after the next command is executed correctly. On the other hand, an error related to the failure of the fiscal module will be visible until the cause of the error has been corrected.
4. The error message on the open receipt is not printed.
5. By appropriate command, the Buyer's NIP may be placed on the receipt (or invoice).

### 3.7.5 Issuing invoices

All devices support the printing of fiscal invoices at the receipt station. The printout of VAT invoices at the receipt station is operated in accordance with the following rules:

* It is necessary to send a command to open an invoice,
* The procedure for selling a commodity that is the same as for a fiscal receipt is used to record the amount of the goods sale and print the lines containing the Description: of the goods, including the PKWiU number, quantity, unit price, net value, tax rate, tax amount and gross amount. The net amount and the tax amount are calculated by the fiscal module from the gross price that must be sent from the sales application. The display is updated in the same way as when printing receipts.
* The partial sum can not be printed.
* The invoice is summarized by the command “Summary of the receipt”. Information about sale in each VAT category is printed automatically.
* The orders “Print the customer's name on the invoice’ and ‘Print the NIP on the VAT invoice and receipt’ allow you to print the buyer's name and tax identification number (NIP) which are inserted into the invoice according to the fiscal regulations.
* The ‘End of sale’ command is sent to complete the invoice.

### 3.7.6 Payment rules

According to Polish fiscal law, it is required to save forms and settlements of payments and to specify the amounts paid and the amounts of the rest on the receipt. Such settlement is placed after the total transaction line, but before the fiscal logotype and splits into the payment in the accounting and other currency.

### 3.7.7 Display support during the sales transaction

All information about sales transactions is sent to the customer's display directly from the fiscal module. After the receipt, the display is available for the next transaction.

## 3.8 Programming the reminder about the necessity to perform periodical maintenance

The printer has the ability to remind you of an obligatory service maintenance. By setting the service.period and service.period.warning parameters, the cash register program can program the time of the next service review and the frequency of earlier reminding about it by printing relevant information after the fiscal daily report.

## 3.9 Update of the cash register program

The update of the cash register program begins after closing the fiscal day. The process starts with checking the status of the firmware on the producer’s and CPD servers, i.e. the presence of a new homologated version. If the verification returns a positive response, the printer connects to the update server and starts downloading the new firmware version. Next, the new firmware version is automatically installed on the device, and after a successful update operation, confirmation in the form of a printout is made. During the update process, the following information appears on the display:

* Checking the availability of a new cash register program
* A new casht register program is available
* Downloading a new cash register program
* Successful update of the cash register program

The download takes about 40 minutes. A successful update results in a self-restart of the printer and printout of the relevant information if it is in neutral mode. In the event of an unsuccessful update, it is possible to resume the downloading process after the next closing of the fiscal day.

# 4 Description of the main protocol

## 4.1 Transmission of commands

The printer returns the ACK (ASCII: 0x06) character as confirmation of correct execution.

The NAK character (ASCII: 0x15) is returned when command was not executed or error occurred. The standard response time of the printer to execute the command is below 0.5 second, however, there are commands whose execution causes the printer to respond in a longer period of time (from few to several seconds). In the case where the printer is in sleep mode, the response to the command can be sent back after a few seconds, the responses to the request commands are sent back without delay.

Execution of request commands is not confirmed - the printer sends the requested data. ACK and NAK characters are not sent back in response to the read command of Fiscal Module’s status. In the case when the request comands are sent during the execution of the command (ESC MFB…) where answer may come after a long time, ACK or NAK characters can be sent back along with the response to request order.

In the case of external events (eg no paper), NAK and ACK responses may be paused until the problem is corrected.

When the printer sends back NAK, the status reading of the Fiscal Module is required.

After receiving the last command’s byte, the Fiscal Module stops receiving commands beginning with the ESC MFB sequence until it responds with ACK or NAK.

From the firmware version: 2.03.5194, a 1-byte CAN command has been introduced (ASCII code: 0x18), which interrupts the command’s parsing and clears the input and output of the FIFO queue.

## 4.2 Basic information

Definitions:

|  |  |  |
| --- | --- | --- |
| **ESC** | - | ASCII character code 0x1B |
| **MFB** | - | ID of the beginning of the command. ASCII code 0x80 |
| **MFE** | - | ID of the end of the order. ASCII code 0x83 |
| **MFB1** | - | ID of the sequence start. ASCII code 0x81 |
| **MFB2** | - | ID of the sequence start. ASCII code 0x82 |
| **NUL** | - | divider; ASCII code 0x00 or 0x0A |
| **DLE** |  | ASCII code 0x10 |
| **ACK** | - | Confirmation of the correct execution of the command, ASCII code 0x06 |
| **NAK** | - | Confirmation of the incorrect execution of the command, ASCII code 0x15 |
| **a..z, A..Z** | - | ASCII character |
| **<name>** | - | Mandatory parameter |
| **LF** | - | Divider, ASCII code 0x0A |
| **[option]** | - | Optional parameter |
| **SP** | - | The ASCII character with the code 0x20 used for separating the string |

Examples:

RED – Data transferred from computer to fiscal printer

GREEN – Data sent from fiscal printer to computer

## 4.3 Sales transaction

### 4.3.1 Opening of the receipt/invoice

Format

|  |
| --- |
| ESC MFB C[<invoice’s\_number >] ESC MFE |

Description

If an argument *[<invoice’s\_number>]* will be skipped at the sign C then command determines fiscal receipt’s printout. Sending a number to the printer opens the printout of the VAT invoice specified by this number. Nothing is printed after sending this command.

Arguments

* *[<invoice’s\_number >] –* specifies the invoice number, an ASCII string higher or equal to 0x20 is accepted. The maximum invoice number corresponds to 40 characters.

Example of opening a receipt

|  |
| --- |
| ESC MFB C ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  01-217 Warszawa  Kolejowa 5/7  NIP 9281838767  nr wydr.000347/0006  PARAGON FISKALNY |
| The command does not cause a printout, it will appear along with the first transaction line. |

*Example of opening an invoice*

|  |
| --- |
| ESC MFB C1234567890 ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  01-217 Warszawa  Kolejowa 5/7  NIP 9281838767  nr wydr.000349/0006  FAKTURA VAT NR: 1234567890 |
| The command does not cause a printout, it will appear along with the first transaction line. |

*Acceptance conditions*

* Open or closed sales period
* Receipt closed

*Possible further operations*

* Sales line
* Footer
* Cancellation of the transaction

### 4.3.2 Transaction/advance line

Format

|  |
| --- |
| ESC MFB D<product\_name> NUL <comment1> LF CR [<comment2>] LF CR [<comment3>] ESC MFB1 a <value> ESC MFB2 <VAT> ESC MFE |

or

|  |
| --- |
| ESC MFB D<product\_name> 0x0A <comment1> 0x0A 0x0D [<comment2>] 0x0A 0x0D [<comment3>] ESC MFB1 a <value> ESC MFB2 <VAT> ESC MFE |

Description

Verifies the correctness of the tax rate defined for a given product. Updates the Control Database of Goods in RAM. Prints the transaction line. Increases the value of receipt or invoice accumulators. Generates and displays the appropriate message on the customer's display.

Arguments

* < product\_name > - the string length must not exceed 56 characters for wide paper and small font, 42 for wide paper and bigger font, 40 for narrow paper and must be finished by a NUL character (0x00) or LF (0x0A). Permitted characters in the name are:
  + Capital letters A…Z,
  + Small letters a…z,
  + Polish uppercase and lowercase letters in the selected code page (1250, CP852, MAZOVIA, ISO8859-2),
  + Digits 0..9,
  + Characters: dot (.), comma(,), forward slash(\), backward slash(/), percentage (%).
  + Spaces added in the product name are ignored, while the product name containing only space characters (ASCII code 32) is not accepted.

The rules according to which the entry to the commodity database is created and should be taken into account when naming the goods:

1. characters:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| space | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |
| U | V | W | X | Y | Z | Ą | Ć | Ę | Ł | Ń | Ó | Ś | Ź | Ż | a | b | c | d | e | f |
| g | h | i | j | k | l | m | n | o | p | q | r | s | t | u | v | w | x | y | z | ą |
| ć | ę | ł | ń | ó | ś | ź | ż | . | , | \ | / | % | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

are remembered. Small and capital letters are treated as the same characters. By default, only capital letters are printed, it is necessary to set the appropriate parameter (po.rcpt.item\_characters, see 4.7.12).

1. characters:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ! | # | $ | ’ | & | ( | ) | \* | + | : | < | = | > | ? | @ |  | \_ | - | ; |  |  |

are accepted, but they do not affect the creation of an entry in the commodity database

1. other characters are changed to "\_" or "?"

**Note**: The name must contain at least one character from the point a).

* <comment1> - consists of two mandatory parameters: <quantity> and <price>. Within a comment two separate numbers are searched. Detected numbers are treated as the quantity of the product sold and its unit price respectively (it must be given with two decimal places. Quantity and unit price can be given as two decimal numbers or in ASCII format separated by one or several characters that are not digits. They are multiplied and the result is compared with the parameter <value>. If the calculated value and the value given are different or not only two numbers were found, then an error is returned. Parameter <zaliczka> occurs alternately with the parameter <quantity>. If <zaliczka> occurs then <price> means the value of the pre-paid item. <value> contains the value of the advance paid, which is recorded fiscally. The length of the string can not exceed the maximum number of characters in the line.

Arguments *<product\_name>* and *<comment1>* can be printed on one line if the total number of characters does not exceed the number of characters that can be printed by the printing mechanism, otherwise the printer automatically moves *<comment1>* to the next line.

* Settlement of the advance can be done by replacing parameter *<zaliczka>* by *<rozliczenie>* and providing in the line *<komentarz2>* the receipt number it concerns.
* *[<comment2>], [<comment3>] -* they are not required but if given they may contain an additional description of the sale transaction. In the event of an advance payment, the printer counts the difference between the parameter *<price>* and *<value>* and automatically prints a line *<comment2>* with description "Left to be paid".

The lines may contain uppercase and lowercase letters a ... z, lowercase Polish letters in the selected code page (1250, CP852, MAZOVIA, ISO8859-2), digits 0..9, characters with ASCII codes 32..47, 58 .. 64. The length of the string is less by three than the maximal number of characters in line.

* <value> - determines the value of the sale transaction, from the range of 0.01 to 42949.72. The decimal separator can be a dot or a comma.
* <VAT> - determines the VAT rate assigned to a given item name from the range of A ... G.

Notes

* Formatting the sales line sent to the printer:

The sales line must be formatted to fit within the print area. The LF CR string (ASCII codes: 0x0A, 0x0D) in the comment means moving to a new line. You can insert a maximum of two line breaks: You can not separate numbers for the quantity and price by line breaks. The 0x20 code (space) allows to separate a string of characters.

* The quantity of goods can be specified with an accuracy of 4 decimal places. If the decimal places are zeros, the digits are cut off (eg after sending to the printer: 2.00 pcs x 23.99 zł, the printer prints: 2 pcs x 23.99 zł).

Example of a sales line

|  |
| --- |
| ESC MFB DTOWAR-A NUL 1 \* 10.00 ESC MFB1 a10.00 ESC MFB2 A ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  01-217 Warszawa  Kolejowa 5/7  NIP 9281838767  nr wydr.000370/0006  PARAGON FISKALNY  TOWAR-A 1 \* 10,00 10,00 A |

Example of a sleas line with comments

|  |
| --- |
| ESC MFB DTOWAR-A NUL 1,4455 0x20 kg \* 10.00 0x20 PLN 0x0A 0x0D <COMMENT2> 0x0A 0x0D <COMMENT3> ESC MFB1 a14.455 ESC MFB2 A ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  01-217 Warszawa  Kolejowa 5/7  NIP 9281838767  nr wydr.000371/0006  TOWAR-A 1,4455 kg \* 10,00 PLN 14,46 A  <COMMENT2>  <COMMENT3> |

Example of an advance

|  |
| --- |
| ESC MFB DTOWAR-A NUL zaliczka 10.00 ESC MFB1 a5.00 ESC MFB2 A ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  01-217 Warszawa  Kolejowa 5/7  NIP 9281838767  nr wydr.000372/0006  PARAGON FISKALNY  ZALICZKA DO TOWAR-A 5,00 A  POZOSTAŁO DO ZAPŁATY 5,00 |

Example of the advance settlement

|  |
| --- |
| ESC MFB DTOWAR-A NUL rozliczenie 5 LF 0x0D 372 ESC MFB1 a5 ESC MFB2 A ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  01-217 Warszawa  Kolejowa 5/7  NIP 9281838767  nr wydr.000373/0006  PARAGON FISKALNY  Rozliczenie zaliczki do TOWAR-A 5,00 A  Do dokumentów zaliczek nr: 372 |

Acceptance conditions

* Receipt is open
* Receipt is not in the payment phase

Possible further operations

* Sales line
* Discount or uplift to the sales line
* Discount or uplift to the partial sum
* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the sales line
* Cancellation of the transaction
* Sum of the transaction

### 4.3.3 Cancellation of the sales/advance line (storno)

Format

|  |
| --- |
| ESC MFB D < product\_name > 0x00 [<comment>] ESC MFB1 c <value> ESC MFB2 <VAT> ESC MFE |

Description

Prints a transaction line with a negative value. Decreases the value of the corresponding receipt acummulator.

Arguments

* *[<comment>]* - the parameter is entered in the same way as in the case of a transaction line, it is possible to enter an additional 2 lines of the comment. In the case of advance payment *<comment>* is *<zaliczka>* and *<price>*.

Notes

* The same as for command transaction line
* <*value*> - it must be preceded by a minus sign
* None of the receipt accumulators can become negative as a result of this command otherwise the command will not be accepted
* A command is not accepted when a VAT invoice has been selected instead of a receipt

Example of cancellation of the sales line

|  |
| --- |
| ESC MFB DTOWAR-A NUL 1 \* 1.00 ESC MFB1 c-1.00 ESC MFB2 A ESC MFE |
| ACK |
| TOWAR-A 1 \* 1,00 1,00 A  STORNO TOWAR-A 1\* 1,00 -1,00 A |

Example of cancellation of advance line

|  |
| --- |
| ESC MFB DTOWAR-A NUL zaliczka 10.00 ESC MFB1 c-1.00 ESC MFB2 A ESC MFE |
| ACK |
| Zaliczka do TOWAR-A 10 \* 1,00 -1,00 A  Pozostalo Do zaplaty 9,00  Storno zaliczki do TOWAR-A -1,00 A |

Acceptance conditions

* Receipt is open
* Receipt is not in the payment phase
* Sales phase

Possible further operations

* Sales line
* Discount or uplift to the sales line
* Discount or uplift to the partial sum
* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the sales line
* Cancellation of the transaction
* Sum of the transaction

### 4.3.4 Discount, uplift or reduction to the sales line

Format

|  |
| --- |
| ESC MFB d <product\_name> 0x00 <a-give | c-withdraw> [p-percentage, k-amount] ESC MFB1 <A-discount | U – uplift | P - reduction> <value> ESC MFB2 <VAT> [LF<value in percentage>] ESC MFE |

Description

Grants and prints the discount, reduction or uplift to the transaction line. Changes the value of sales by a fixed amount. Displays the size of the discount or uplift and the sum of the receipt. Updates the receipt accumulators corresponding to the given VAT rate. None of the receipt accumulators can be made negative due to this order. In the case of an invoice, the order "A-discount" and "P-discount" are handled.

Arguments

* <product\_name> - specifies the name of the item, which must be shortened to a maximum of 40 characters.
* <a-give | c- withdraw> - the 'a' option specifies that the discount, reduction or uplift will be granted. The 'c' option allows you to modify or cancel the previous operation of granting the discount, reduction or uplift.
* [p-percentage, k-amount] - specification of the type of the discount: percentage or amount. Using the above parameter, it is not necessary to specify the <product\_name> in the command, provided that the discount is printed directly under the sales line, which it concerns. On the receipt, after the word "OPUST", the remaining information about the discount is printed in the same line.
* <value> - the amount by which sales will be reduced or increased. It must be a positive number.
* <VAT> - defines the VAT category assigned to a given item name. Range: A…G.
* [<value in percentage>] - the value given in percent. The addition of this parameter changes the principle of printing and allows the use of a percentage discount.

Example of discount to sales line

|  |
| --- |
| ESC MFB dTOWAR-A NUL a ESC MFB1 A10.00 ESC MFB2 A ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  01-217 Warszawa  Kolejowa 5/7  NIP 9281838767  nr wydr.000377/0006  PARAGON FISKALNY  TOWAR-A 1 \* 100,00 100,00 A  OPUST TOWAR-A -10,00 A |

Example of withdrawal of the discount to sales line

|  |
| --- |
| ESC MFB dTOWAR-A NUL c ESC MFB1 A10.00 ESC MFB2 A ESC MFE |
| ACK |
| KOREKTA OPUSTU TOWAR-A 10,00 A |

Example of uplift to the sales line

|  |
| --- |
| ESC MFB dTOWAR-A NUL a ESC MFB1 U10.00 ESC MFB2 A ESC MFE |
| ACK |
| TOWAR-A 1 \* 100,00 100,00 A  NARZUT TOWAR-A 10,00 A |

Example of withdrawal of uplift

|  |
| --- |
| ESC MFB dTOWAR-A NUL c ESC MFB1 U10.00 ESC MFB2 A ESC MFE |
| ACK |
| KOREKTA NARZUTU TOWAR-A -10,00 A |

Example of percentage discount to the sales line

|  |
| --- |
| ESC MFB dTOWAR-A NUL ap ESC MFB1 A10.00 ESC MFB2 A LF 10.00 ESC MFE |
| ACK |
| TOWAR-A 10,00 A  OPUST 10,00% TOWAR-A -1,00 A |

Example of redction to the sales line

|  |
| --- |
| ESC MFB dTOWAR-A NUL a ESC MFB1 P0.20 ESC MFB2 A ESC MFE |
| ACK |
| TOWAR-A 1 \* 100,00 100,00 A  OBNIŻKA TOWAR-A -10,00 A |

Example of withdrawal of reduction

|  |
| --- |
| ESC MFB dTOWAR-A NUL c ESC MFB1 P0.10 ESC MFB2 A ESC MFE |
| ACK |
| KOREKTA OBNIŻKI TOWAR-A 10,00 A |

Acceptance conditions:

* Receipt is open
* Receipt is not in the payment phase
* Command is not accepted fully in the case of invoice

Possible further operations:

* Sales line
* Discount or ulift to the sales line
* Discount or uplift to the partial sum
* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the sales line
* Cancellation of the transaction
* Sum of the transaction

### 4.3.5 Partial sum

Format

|  |
| --- |
| ESC MFB Q ESC MFB1 <partial\_sum> ESC MFE |

Description

Compares the current sum of the receipt or invoice with the sum sent. If the sums are not compatible, an error is signaled. If the comparison of the partial sum sent from the application and the sum from the accumulator is correct then further action of the command depends on the next instruction sent from the application. If the next command is the end of the sale transaction, the partial sum is not printed, only the sales phase is closed (printout of the tax report and sum of the receipt), otherwise the partial sum line is printed and the next command is executed.

Arguments

*<partial\_sum> -* specifies the current sum of the receipt.

Example of partial sum

|  |
| --- |
| ESC MFB Q ESC MFB1 100,00 ESC MFE |
| ACK |
| PODSUMA 100,00 |

Acceptance conditions

* Receipt is open
* Receipt is not in the payment phase

Possible further operations

* Sales line
* Discount or ulift to the sales line
* Discount or uplift to the partial sum
* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the sales line
* Cancellation of the transaction
* Sum of the transaction

### 4.3.6 Percentage discount or uplift to the partial sum

Format

|  |
| --- |
| ESC MFB F <A-discount | U-uplift> ESC MFB1 <percentage> ESC MFE |

Description

Lowers or increases proportionally all receipt accumulators. The amount by which each accumulator is changed is rounded to +/- 0.01 according to standard rounding rules. The discount to the sum expressed in amounts is the difference between the sum of the receipt before and after the discount or uplift. Prints the lines of the partial sum and the discount or uplift. A detailed algorithm for calculating this discount is included in the Arithmetic chapter.

Arguments

* <A-discount | U-uplift> - option A causes the use of a percentage discount, option U causes the use of a percentage uplift.
* <percentage> - The percentage value referring to the current partial sum of the receipt should be entered as a numerical value with an accuracy of two decimal places and a% sign at the end, e.g. 10.00%.

*Example of percentage discount*

|  |
| --- |
| ESC MFB FA ESC MFB1 10.00% ESC MFE |
| ACK |
| TOWAR-A 100,00  OPUST 10,00% 10,00  PODSUMA 90,00  ----------------------------------------  Suma Opustów 10,00 |

Example of percentage uplift

|  |
| --- |
| ESC MFB FU ESC MFB1 10.00% ESC MFE |
| ACK |
| TOWAR-A 100,00  NARZUT 10,00% 10,00  PODSUMA 110,00  ----------------------------------------  Suma Narzutów 10,00 |

Acceptance conditions

* Receipt is open
* Receipt is not in the payment phase
* Command cannot be used at VAT invocie

Possible further operations

* Sales line
* Discount or ulift to the sales line
* Discount or uplift to the partial sum
* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the sales line
* Cancellation of the transaction
* Sum of the transaction

### 4.3.7 Discount or uplift amount to the partial sum

Format

|  |
| --- |
| ESC MFB f <A-discount | U-uplift> ESC MFB1 [<amount in a rate A> LF... <amount in a rate G> ESC MFB2] <a-give | c-withdraw> <value> ESC MFE |

or

|  |
| --- |
| ESC MFB f <a-discount | u-uplift> ESC MFB1 <a-give | c-withdraw> <value> ESC MFE |

Description

Grants and prints a discount or uplift to the current amount. The discount or uplift is a fixed amount subtracted or added to the accumulator VAT rates, in proportion to their current size. A detailed algorithm for calculating this discount is included in the Arithmetic chapter.

Arguments

* <A-discount | U-withdraw> - the 'A' option determines the application of the discount, the 'U' option selects the uplift operation.
* [<amount in a rate A>, …, < amount in a rate G>] - determines the values that will be subtracted from or added to the accumulator VAT rates category A ...G. If the tax rate for a given VAT category is not defined then the value for this category must be equal to zero (0.00). The correctness of the separation of the total value of the discount or uplift on the VAT rate accumulators is verified. The transmitted value may not differ more than +/- 0.01 from the value calculated by the fiscal module. The distribution of the amount of the discount / uplift must be made in accordance with the rules described in the chapterArithmetics.
* <value> - determines the total value to be subtracted from or added to the current sum of the receipt.
* <a-discount |u-uplift> - the 'a' option determines the application of the discount, the 'u' option selects the uplift operation. For these values, the separation of values is calculated by the fiscal module and is not verified.
* <a-give |c-withdraw> - the option 'a' specifies that the discount / uplift is to be granted and the value of the accumulator will be reduced / increased accordingly. The 'c' option allows you to modify or cancel the previous operation of discount / uplift. For a command with the 'c' option, the sign of the arithmetic operation performed on the accumulator is changed to the opposite one.

Acceptance conditions

* Sales phase
* Command cannot be used at VAT invocie

Example of discount amount to the partial sum

|  |
| --- |
| ESC MFB fA ESC MFB1 10.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 ESC MFB2 a10.00 ESC MFE |
| or |
| ESC MFB fa ESC MFB1 a10.00 ESC MFE |
| PODSUMA 100,00  OPUST 10,00 |

*Example of withdrawal of discount amount*

|  |
| --- |
| ESC MFB fA ESC MFB1 10.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 ESC MFB2 c10.00 ESC MFE |
| or |
| ESC MFB fa ESC MFB1 c10.00 ESC MFE |
| PODSUMA 90,00  KOREKTA OPUSTU 10,00 |

*Example of uplift amount to the partial sum*

|  |
| --- |
| ESC MFB fU ESC MFB1 10.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 ESC MFB2 a10.00 ESC MFE |
| or |
| ESC MFB fu ESC MFB1 a10.00 ESC MFE |
| PODSUMA 100,00  NARZUT 10,00 |

Example of withdrawal of uplift amount

|  |
| --- |
| ESC MFB fU ESC MFB1 10.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 LF 0.00 ESC MFB2 c10.00 ESC MFE |
| or |
| ESC MFB fu ESC MFB1 c10.00 ESC MFE |
| PODSUMA 110,00  KOREKTA NARZUTU 10,00 |

Acceptance conditions

* Receipt is open
* Receipt is not in the payment phase
* Command cannot be used at VAT invocie

Possible further operations

* Sales line
* Discount or ulift to the sales line
* Discount or uplift to the partial sum
* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the sales line
* Cancellation of the transaction
* Sum of the transaction

### 4.3.8 Readout of the distribution of the amount of the discount / uplift to the sum

Format

|  |
| --- |
| ESC MFB Ld <A-discount/U-uplift> <amount> ESC MFE |

Description

It read out the distribution of the amount of the discount / uplift to the sum that will be calculated by the fiscal module. The command is sent before sending the discount.

*Answer*

|  |
| --- |
| ESC r MSB LSB <amountA> LF <amountB> LF ... LF <amountG> LF |

Arguments

* < A-discount /U- uplift>
* <amountA…G> - amount of discount / uplift to calculate

Acceptance conditions:

* Sales phase

Example

|  |
| --- |
| ESC MFB LdA 0.10 ESC MFE |
| ACK |
| ESC r NUL 0x23 0,07 LF 0,03 LF 0,00 LF 0,00 LF 0,00 LF 0,00 LF 0,00 LF |
| ACK |

### 4.3.9 Sum of transaction

Format

|  |
| --- |
| ESC MFB T ESC MFB1 a <total> ESC MFE |

Description

The end of the sales phase. Compares the current sum of the receipt with the <total> value sent by the sales application. If the values match, print the tax statement and the summary line.

Arguments

* <total> - determines the current sum of the receipt.

Example of summary of the receipt

|  |
| --- |
| ESC MFB T ESC MFB1 a128,00 ESC MFE |
| ACK |
| Sprzed. opod. PTU A 100,00  Kwota A 23,00% 18,70  Podatek PTU 18,70  SUMA PLN 100,00 |

Acceptance conditions

* Receipt is open
* Receipt is not in the payment phase
* Sales phase

Possible further operations

* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the transaction
* Completion of transaction

### 4.3.10 Payments and footers of receipts and invoices

Format

|  |
| --- |
| ESC MFB R <indeks> <parametr> [LF <parametr>] ESC MFE |

Description

The command allows to print additional information on documents issued by the printer. The type of payment method used is printed in the fiscal part of the receipt or invoice, whereas the advertising and information content are below the fiscal logotype, in the so-called footer. These lines consist of predefined text and parameters that are defined by the user. On the printout, the predefined text is aligned to the left margin, and the parameter is aligned to the right margin. The number of footers in the fiscal receipt is limited to 35.

Arguments

* *<index> -* specifies the index of one of the predefined subtitles from the basic or extended set.
* *<parameter> -* it is part of the receipt footer line, which can be defined by the user. The parameter’s length is the maximum number of characters in the line, except for the parameters for which the table provides otherwise.

*Types of footer line parameters*

The parameter type is set for each line of the predefined footer. The following types of parameters are distinguished:

* Type 1 - the parameter is an alphanumeric string. The length of the string is the maximum number of characters in the line.
* Type 2 – the parameter is an alphanumeric string. The footer is treated as a payment. The length of the string is max. 12 characters, including max. 7 before comma.
* Type 3 - the parameter is an alphanumeric string. The footer is treated as a payment using the appropriate format: Payment description + space + value.
* Type 4 - the parameter requires a graphic’s number from the range 1 to 8 to be printed.

*A list of predefined types of payments*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | Predefined text | The number of parameters | Parameter type | NOTES |
| A | Wpłacono (Paid) | 1 | 2 |  |
| B | Reszta (Rest) | 1 | 3 |  |
| E | Gotówka (Cash) | 1 | 2 |  |
| F | Czek (Check) | 1 | 2 |  |
| G | Karta kredytowa (Credit card) | 1 | 2 |  |
| H | Voucher | 1 | 2 |  |
| K | Kredyt lokalny (Local credit) | 1 | 2 |  |
| Q | Typy płatności zdefiniowane rozkazem P (Payment types defined by the P command) | 2 | Parameter1 – type 1  Parameter2 – type 2 | The first parameter must be exactly 18 characters, the second 15 |
| Z | Swobodny opis płatności (Free Payment Description) | 2 | Parameter1 – type 2  Parameter2 – type 1 | The second parameter can have a maximum of 35 characters |
| a | Płatność (Payment) | 1 | 3 |  |
| t | Karta (Card) | 1 | 2 |  |
| +A | Bon (Token) | 1 | 2 |  |
| +B | Kredyt (Credit) | 1 | 2 |  |
| +N | Przelew (Transfer) | 1 | 2 |  |
| +O | Mobilna (Mobile) | 1 | 2 |  |

*List of predefined footer lines*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | Predefined text | The number of parameters | Parameter type | NOTES |
| I | Linia bez słowa kluczowego (Line without a keyword) | 1 | 1 |  |
| J | Bez narzutu (No uplift) | 1 | 1 |  |
| L | Numer (Number) | 1 | 1 |  |
| M | Przebieg km (Mileage km) | 1 | 1 |  |
| N | Numer rej. (Reg. number) | 1 | 1 | It is not included in the daily report |
| P | Stan licznika (Counter status) | 1 | 1 |  |
| R | Nr transakcji (Transaction number) | 1 | 1 |  |
| S | Numer kierowcy (Driver's number) | 1 | 1 |  |
| T | ‘...................’  ‘podpis’ (signature) | 0 | --- |  |
| U | Wartość Voucher (Value Voucher) | 1 | 1 |  |
| Y | Kasjer (Cashier) | 1 | 1 |  |
| b | Przedpłata do paragonu Przedpłata do faktury (Pre-payment to the receipt  Pre-payment to the invoice) | 1 | 1 | One of these footers is printed depending on the document on which it is printed. The maximum length of the string depends on the width of the paper and the size of the font |
| c | Uwzględniono opust (The discount was included) | 1 | 1 |  |
| f | ‘-------------------‘ | 0 | --- |  |
| g | Pusta linia (spacje) (free line - spaces) | 0 | --- |  |
| h | Swobodny tekst, możliwość formatowania (Free text, the possibility of formatting) | 3 | 1 | Prints all characters. The number of characters depends on the paper width and font size. There is a possibility of formatting the text - see # |
| k | Udzielony opust (Discount granted) | 1 | 1 |  |
| l | Punkty – bonus (Points - bonus) | 1 | 1 |  |
| m | Punkty – paragon (Points - receipt) | 1 | 1 |  |
| n | Razem punktów (Total points) | 1 | 1 |  |
| o | Numer karty (The card number) | 1 | 1 |  |
| p | Zyskałeś (You gained) | 1 | 1 |  |
| q | Przyznano pkt. (Granted points) | 1 | 1 |  |
| r | Stan konta (Account balance) | 1 | 1 |  |
| s | Dziękujemy za lojalność (Thank you for your loyalty) | 0 | --- |  |
| u | Typ karty (Card’s type) | 1 | 1 |  |
| v | Ważna do (Valid to) | 1 | 1 |  |
| w | Numer kasy (Cash register number) | 1 | 1 |  |
| x | Numer zmiany (Change number) | 1 | 1 |  |
| y | 1 linia tekstu, predefiniowana raz na dobę (1 line of text, pre-defined once a day) | 1 | 1 | The printout is double width, the parameter length is the maximum number of characters in the line. |
| 1 | Kod kreskowy na początku sekcji stopek (Bar code at the beginning of the footer section) | 1 | - | The parameter of these footers is the same sequence of characters as the <bc\_string> section in the order to print the barcode |
| 2 | Kod kreskowy na końcu  sekcji stopek (Bar code at the end  footer section) | 1 | - |
| 3 | Nr pracownika (Employee number) | 1 | 1 |  |
| 4 | Nazw. Pracownika (Employee name) | 1 | 1 |  |
| 5 | Konto przed tr. (Account before transaction) | 1 | 1 |  |
| 6 | Przyznano (Granted) | 1 | 1 |  |
| 7 | Wykorzystano (Used) | 1 | 1 |  |
| 8 | Konto po tr. (Account after transaction) | 1 | 1 |  |
| 9 | Klient stały (Steady client) | 1 | 1 |  |
| 0 | Ilość sprzed. tow. (Amount of sold goods) | 1 | 1 |  |
| ! | Kod (Code) | 1 | 1 |  |
| @ | Nazwa (Name) | 1 | 1 |  |
| # | Opis (Description) | 1 | 1 |  |
| $ | Liczba (Number) | 1 | 1 |  |
| % | Nazwisko (Name) | 1 | 1 |  |
| ^ | Nr zamówienia (Order’s number) | 1 | 1 |  |
| +C | Konto klienta (Client’s account) | 1 | 1 |  |
| +D | Inna (Other) | 1 | 1 |  |
| +E | Koszt recyclingu (The cost of recycling) | 1 | 1 |  |
| +F | Szanowny kliencie! Dziękujemy za zakupy #. Z Twoich zakupów # przeznaczy kwotę # na #." (Dear Customer! Thank you for shopping #. From your purchases # will allocate the amount # to #. ") | 4 | 0 | A maximum of 4 parameters can be defined separated by LF, which will replace the # characters in the template. For example: "Dear customer, thank you for shopping in the store." Your store will donate 1.20 zł to your charity. " The maximum number of footers of this type is up to 10 |
| +G | ------------ | 0 |  | Printing the separator across the whole line with dash marks '-' |
| +H | ======= | 0 |  | Printing the separator across the whole line with equal signs '=' |
| +I | \_\_\_\_\_\_\_\_\_ | 0 |  | Printing separator on the width of the entire line with underscores '\_' |
| +J | ............... | 0 |  | Printing the separator on the width of the whole line with the dots '.' |
| +K | Uwzględniono narzut (Included uplift) | 1 | 1 |  |
| +L | Grafika (Graphic) | 1 | 4 |  |
| +M | Dodatkowa opłata niefiskalna (Additional non-fiscal fee) | 2 | Parameter1 – type 2  Parameter2 – type 1 | A maximum of 35 characters can be specified for the second parameter |

# - Description of the extended format for the footer h:

|  |
| --- |
| ESC MFB R h <text> LF <parameter1>LF<parameter2> ESC MFE |

*parameter 1:*

* L- Align to the left margin
* P- Align to the right margin
* C - Centered

*parameter 2:*

* 0 – Normal font
* 1 – Double height
* 2 – Double width
* 3 – Double height and width

*Example of payment A with automatic rest counting*

|  |
| --- |
| ESC MFB RA150 ESC MFE |
| ACK |
| ESC MFB RR28 ESC MFE |
| ACK |
| ESC MFB RhDziękujemy 0x20 i 0x20 zapraszamy 0x20 ponownie ESC MFE |
| ACK |
| Sprzed. opod. PTU A 100,00  Kwota A 23,00% 18,70  Podatek PTU 18,70  SUMA PLN 100,00  -----------------------------------------  Rozliczenie płatności  Wpłacono 150,00  Wpłacono razem 150,00  Reszta 50,00  ----------------------------------------  000012/0023 #001 Jan Kowalski  2018-06-14 10:55  62394TX4UMRQNL7CNZ83YN8B7  <PL> ABC0123456789  Nr transakcji 28  Dziękujemy i zapraszamy ponownie |

*Acceptance conditions*

* Receipt is open
* Receipt in payment phase
* Summary phase or packaging settlement phase

*Possible further operations*

* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the transaction
* Completion of transaction

### 4.3.11 Opening of settlement of the returnable packaging

*Format*

|  |
| --- |
| ESC MFB C LF e ESC MFE |

*Description*

Opens a non-fiscal printout of returnable packaging settlement that can not be canceled.

*Example*

|  |
| --- |
| ESC MFB C LF e ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o. o.  Ul. Kolejowa 5/7, 01-217 Warszawa  NIP 9281838767  nr wydr. 000091/0026  NIEFISKALNY  ROZLICZENIE OPAKOWAŃ ZWROTNYCH |

*Acceptance conditions*

* Open sales period

### 4.3.12 Settlement of returnable packaging

Format

|  |
| --- |
| ESC MFB r <a-give | c- remove > ESC MFB1 <quantity and price> ESC MFB2 <value> [LF<name>] ESC MFE |

Description

Performs settlement of accepted and returned returnable packaging. Updates the displayed total value. The command does not affect the receipt’s accumulators, it is included as a payment. The printer takes into account bail’s value when counting and printing the rest. Non-fiscal print can not be canceled, it can only be terminated.

Arguments

* *<a-give | c-remove >*  *-* determines the type of operation: whether the payment should be reduced or increased by the value of packages.

a - adds the value of the bail to the sum, c - deducts the bail from the total of the receipt.

* *<quantity and price> -* determines the quantity and unit price of a given type of packaging. The maximum parameter length is 30 characters.
* *<value> -* determines the result of multiplying the quantity by the unit price, rounded to 0,01.
* *<name> -* the possibility of giving any name of the packaging. If no parameter is specified, a predefined description of the packaging is printed. The length of the name corresponds to the maximum number of characters in the line.

Example of granting bail

|  |
| --- |
| ESC MFB r a ESC MFB1 1 \* 1,00 ESC MFB2 1,00 LF Butelka ESC MFE |
| ACK |
| SUMA PLN 100,00  ------------------------------------------  OPAKOWANIA ZWROTNE WYDANIA  Opak. zwrot. 1 \* 1,00 1,00  Butelka 1 \* 1,00 1,00  OPAKOWANIA ZWROTNE SUMA 2,00  **DO ZAPŁATY** 102,00  -----------------------------------------  000010/0011 # 001 Jan Kowalski  2018-06-13 14:58  624G18JNXUHGUTVoTY448G054  <PL> Abc0123456789 |

*Example of giving back bail*

|  |
| --- |
| ESC MFB r ESC MFB1 c ESC MFB2 1.00 ESC MFE |
| ACK |
| SUMA PLN 100,00  ------------------------------------------  OPAKOWANIA ZWROTNE WYDANIA  Opak. zwrot. 1 \* 1,00 1,00  OPAKOWANIA ZWROTNE PRZYJĘCIA  Zwrot opak. 1 \* -1,00 -1,00  OPAKOWANIA ZWROTNE SUMA 0,00  **DO ZAPŁATY** 100,00  -----------------------------------------  000010/0011 # 001 Jan Kowalski  2018-06-13 14:58  624G18JNXUHGUTVoTY448G054  <PL> Abc0123456789 |

*Stan akceptacji*

* Receipt or non-fiscal settlement is open
* Receipt in the payment phase

*Possible further operations*

* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the transaction
* Completion of transaction

### 4.3.13 Cancel the receipt or invoice

Format

|  |
| --- |
| ESC MFB T ESC MFB1 c [total] ESC MFE |

Description

Cancels a receipt or invoice. Prints the line "TRANSACTION CANCELED". It deletes the receipt accumulators. The number of cancelled receipts and the amount of the sum counted are specified in the Daily Report.

Example of cancellation

|  |
| --- |
| ESC MFB T ESC MFB1 c ESC MFE |
| ACK |
| Sprzed. opod. PTU A 100,00  Kwota PTU A 23,00% 18,70  Suma PTU 18,70  SUMA PLN 100,00  ---------------------------------------------  TRANSAKCJA ANULOWANA  000016/0023  2018-06-14 12:18  1DC088E343C4A273CB782A89766D6037457DD0603  <PL>ABC0123456789 |

*Acceptance conditions*

* Receipt is open
* Receipt in the payment phase

### 4.3.14 Print the name of the customer on the VAT invoice

Format

|  |
| --- |
| ESC MFB i <customer’s name\_line1> LF .. < customer’s name\_line6> ESC MFE |

Description

Prints the customer's name on the VAT invoice.

Arguments

* < customer’s name\_line1> .. < customer’s name\_line6> - The customer's name can consist of 6 lines. Each line can not contain more than the maximum character length in the line. The buyer's lines must be separated by the LF mark.

*Example of customer’s name on the invoice*

|  |
| --- |
| ESC MFB iExorigo-Upos Sp. z o.o. LF ul. Kolejowa5/7 LF 01-217 Warszawa LF Biuro w Gliwicach LF ul. Bojkowska 35, bud. 2 LF 44-100 Gliwice ESC MFE |
| ACK |
| ------------------------------------------  Nabywca:  Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7  01-217 Warszawa  Biuro w Gliwicach  ul. Bojkowska 35, bud. 2  44-100 Gliwice |

*Acceptance conditions*

* Invoice in the payment phase
* Sales or summary phase of invoice

*Possible further operations*

* Footer
* Customer’s NIP
* Cancellation of the transaction
* Completion of transaction

### 4.3.15 Print the VAT registration number (NIP) of the customer on the VAT invoice and receipt

Format

|  |
| --- |
| ESC MFB j <customer’s NIP> ESC MFE |

Description

Prints the VAT numer (NIP) of the customer on the VAT invoice and receipt.

Arguments

* < customer’s NIP > - gives the tax identification number of the customer's NIP. The parameter can accept alphanumeric characters. Special characters with the exception of the "-" sign and Polish letters return an error. The printer accepts up to 30 characters.

Example of the customer’s NIP

|  |
| --- |
| ESC MFB j111-22-33-44 ESC MFE |
| ACK |
| SUMA PLN 1,00  ----------------------------------------------  00000/50024 #001 Jan Kowalski  NIP Nabywcy: 1112233444  2018-06-14 13:17  6225ZKHHTGJXGMYZ0o8G7IFR04468844123704  <PL> ABC0123456789 |

*Acceptance conditions*

* Sales opened
* Receipt in the payment phase

*Possible further operations*

* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the transaction
* Completion of transaction

### 4.3.16 Defining any text on a VAT invoice

Format

|  |
| --- |
| ESC MFB i ESC <description> [LF <text\_line1>…LF<text\_line5>]ESC MFE |

Description

It allows you to print any text on a VAT invoice. You can define up to 5 lines of text. An order can be sent 6 times in one transaction.

Example

|  |
| --- |
| ESC MFB i ESC Description LF Odebrano w siedzibie firmy LF Dokumenty zostały wydane ESC MFE |
| ACK |
| --------------------------------------------------------  Nabywca: Exorigo-Upos  NIP Nabywcy: 9281838767  Description:  Odebrano w siedzibie firmy  Dokumenty zostały wydane  Data sprzedaży 2018-06-14  Data wystawienia faktury 2018-06-14 |

### 4.3.17 The end of the sale transaction

Format

|  |
| --- |
| ESC MFB E ESC MFE |

Description

Ends the receipt or invoice. Updates daily accumulators. Prints the lines ending the receipt and then the footer lines. Closes the settlement of returnable packaging.

Example of closing the receipt

|  |
| --- |
| ESC MFB E ESC MFE |
| ACK |
| SUMA PLN 10,00  --------------------------------------------------------  000013/0023 #001 Jan Kowalski  2018-06-14 11:40  4701B8CE43B34A9C7795195AEC6FAEF0E15F13FC  <PL>ABC0123456789 |

*Acceptance conditions*

* Receipt in the payment phase

### 4.3.18 Settlements in foreign currency

Format

|  |
| --- |
| ESC MFB c< e–payment|r–rest> <exchange> LF <foreign currency – registered currency> LF <value> ESC MFE |

Description

Converts the current amount of the receipt or it’s rest into a different currency by given course and depending on the set conversion rate. It is possible to provide the course with an accuracy of 4 decimal places. The printer checks whether the foreign currency from which the value is converted is not the same as the registered currency and whether the currency on which we convert is compatible with the registered currency. Within one receipt, you can send a total of 10 commands for conversion, payment or issuance of the rest in a foreign currency.

Arguments

* *<exchange> defines the method of currency conversion according to the given exchange rate. For payments*: *<exchange>* = \*c/r - currency converted into another is foreign currency

*<exchange>* = /c/r - converted currency is registered currency

For the rest:

*<exchange>* = \*c/r - converted currency is registered currency

*<exchange>* = /c/r - currency converted into another is foreign currency

‘ \* ‘ or ‘ / ‘ means to multiply or divide the value by the exchange rate.

* *<foreign currency>* and *<registered currency>-* three-letter currency designation. Between the parameters, the first character "-", "/" or "\" is searched. The text from this mark is interpreted as the name of the first currency and the text as the name of the second currency.
* *<value> -* determines the value of the payment in a foreign currency. In the case of the rest in a foreign currency this parameter should be omitted, the printer counts the rest by itself. The parameter requires a value with a decimal separator.

*Example*

|  |
| --- |
| ESC MFB ce\*4,5000 LF EUR-PLN LF 100,00 ESC MFE |
| ACK |
| SUMA PLN 10,00  ------------------------------------------  Rozliczenie płatności  Płatnośc walutą obcą:  ------------------------------------------  EUR Przelicznik 1 EUR=4,5000 PLN  Gotówka 100,00 EUR 450,00 PLN  Wpłacono razem 450,00  Reszta 440,00  ------------------------------------------  000042/0006 #001 Jan Kowalski  2018-06-01 13:10  62MTM8HFPR448oWZ187W6KN3QHDE9  <PL> ABC0123456789 |

*Acceptance conditions*

* Receipt in the payment phase

*Possible further operations*

* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the transaction
* Completion of transaction

### 4.3.19 Informative currency conversion

Format

|  |
| --- |
| ESC MFB c <exchange> LF < foreign currency – registered currency > ESC MFE |

Description

Converts the current sum of the receipt into a different currency by given course and depending on the set conversion rate. It is possible to provide the course with an accuracy of 4 decimal places. The conversion section of the current sum of the receipt into a foreign currency is printed in front of the fiscal logo.

Arguments

* *< exchange > -* determines the method of currency conversion according to the given exchange rate. When:

*< exchange >* = \*c - information conversion refers to the conversion from the registered currency

*< exchange >* = /c - information conversion refers to the conversion from a foreign currency

* *<foreign currency>* and *<registered currency> -* Specifies the exchange rate according to which the sum of the receipt will be converted. In the middle parameter, the first character "-", "/" or "\" is searched. The text from this mark is interpreted as the name of the first currency, after that sign as the name of the second currency.

Example

|  |
| --- |
| ESC MFB c4,5000 LF EUR-PLN ESC MFE |
| ACK |
| SUMA PLN 10,00  ------------------------------------------  Przeliczenie informacyjne  1 EUR = 4,5000 PLN  DO SUMY 10,00 PLN równowartość 2,22 EUR  ------------------------------------------  000042/0006 #001 Jan Kowalski  2018-06-01 13:10  62MTM1HFPR428oWZ177W6KN4QHDE9  <PL> ABC0123456789 |

*Acceptance conditions*

* Receipt in the payment phase

*Possible further operations*

* Footer
* Settlement of the returnable packaging
* Conversion or payment with foreign currency
* Cancellation of the transaction
* Completion of transaction

### 4.3.20 Handling of bar codes and 2D codes

Command format for bar codes

|  |
| --- |
| ESC MFB q <prn\_st> <bc\_string> ESC MFE |

Description

The command allows you to print bar codes. However, if the receipt is open, please use the footer index no. 1 or index no. 2 (item 4.3.10 Payments and footers of receipts and invoices) for printing bar codes. The bar code on the printout is always centered. Free bar code printing is only allowed within an open non-fiscal format. The printing station can be ignored or changed by the printer program according to the requirements of fiscal regulations.

Arguments

* *<prn\_st>*

Specifies the printing station on which the bar code will be printed:

J – ignored

R – ignored

B – ignored

0 – automatic bar code printing in front of the footers

1 – automatic bar code printing after the footers

* *<bc\_string>*

a string describing the bar code in the format:

|  |
| --- |
| <bc\_string> = <bc\_type> : [<hri\_pos> <hri\_font>] : [<bc\_width>] : [<bc\_height>] : <bc> |

gdzie:

* *<bc\_type>* - type of barcode:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A | - | UPC-A | C | - | EAN-13 |
| D | - | EAN-8 | E | - | CODE-39 |
| F | - | ITF | G | - | CODABAR |
| H | - | CODE-93 | I | - | CODE-128 B |
| J | - | CODE-128 A | K | - | CODE-128 C |
| L | - | GS1-128 | M | - | GS1 DataBar Omnidirectional |
| N | - | GS1 DataBar Truncated | O | - | GS1 DataBar Limited |
| P | - | GS1 DataBar Expanded |  |  |  |

* *<hri\_pos>* –HRI characters location:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N | - |  | Turned off | U | - | Above the code |
| D | - |  | Below the code | B | - | Above and below the code |

* *<hri\_font>* – HRI character’s font:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 0 | - | normal | 1 | - | small |

* *<bc\_width>* – the width of the bar code: 0-100 - ASCII, decimal
* *<bc\_height>* – the height of the bar code: 0-100 - ASCII, decimal
* *<bc>* – barcodes text

Acceptance conditions

Open non-fiscal printout

*Summary for barcodes:*

|  |  |  |
| --- | --- | --- |
| **TYPE OF CODE** | **QUANTITY OF CHARACTERS SENT IN THE CODE CONTENT** | **PERMITTED CHARACTERS IN THE CODE CONTENT** |
| UPC-A | [11] | [0…9] |
| EAN-13 | [12] | [0…9] |
| EAN-8 | [7] | [0…9] |
| CODE-39 | Max 15 | [A…Z] [0…9] [$ . / + % space] |
| ITF | [14] | [0…9] |
| CODABAR | Max 16 | [A] [B] [C] [D] [0…9] [$ + - . /] |
| CODE-93 | Max 24 | [A…Z] [0…9] [$ . / + - % space] |
| CODE-128 | Max 42 | ASCII (od 32 do 127) except { |
| GS1-128 | Max 38 | [0…9] [()] |
| GS1-OMNIDIRECTIONAL | [13] | [0…9] |
| GS1-TRUNCATED | [13] | [0…9] |
| GS1-LIMITED | [13] | [0…9] |
| GS1-EXPANDED | Max 15 | [A…Z] [a…z] [0…9] [! % & ( ) \_ - + = : ” ; ‘ ,< > , . / ?] |

Example of UPC A

|  |
| --- |
| ESC MFB qBA:D0:10:10:01234567890 ESC MFE |
| ACK |

Example EAN-13

|  |
| --- |
| ESC MFB qBC:D1:10:10:012345678901 ESC MFE |
| ACK |

Example of EAN-8

|  |
| --- |
| ESC MFB qBD:D1:10:10:0123456 ESC MFE |
| ACK |

Example of CODE-39

|  |
| --- |
| ESC MFB qBE:D1:10:10:ABC0123456789$% ESC MFE |
| ACK |

Example of ITF

|  |
| --- |
| ESC MFB qBF:D1:10:10:01234567890123 ESC MFE |
| ACK |

Example of CODABAR

|  |
| --- |
| ESC MFB qBG:D1:10:10:A01234567890123A ESC MFE |
| ACK |

Example of CODE-93

|  |
| --- |
| ESC MFB qBH:D1:10:10:01AB/ ESC MFE |
| ACK |

Example of CODE-128

|  |
| --- |
| ESC MFB qBI:D1:10:10: 0123ABCabc/+\_)(\*&^%$#0123ABCabc/.,< ESC MFE |
| ACK |

Example of GS1-128

|  |
| --- |
| ESC MFB qBL:D1:10:10: 0123456() ESC MFE |
| ACK |

Example of GS1-OMNIDIRECTIONAL

|  |
| --- |
| ESC MFB qBM:D1:10:10: 0123456789012 ESC MFE |
| ACK |

The format of the command for the PDF417

|  |
| --- |
| ESC MFB qBQ:columns:rows:width:rh:ecl:ratio:options:tekst ESC MFE |

*Arguments*

* *<columns>* - number of columns 0…30, default 0, automatic selection
* *<rows>* - number of rows 3...90, default 0, automatic selection
* *<width>* - width of module 2...8, default 3
* *<rh>* - height of row 2...8, default 3
* *<ecl>* - selection of error correction level 48 or 49, default 49
* *<ratio>* - depends from ecl:

when ecl=48 - values 48...56

when ecl=49 - values 1...40

* *<options>* - 0 - choice of standard code PDF417, 1 - selection of the truncated code PDF417; default 0
* *<text>* - code content, allowed characters from the ASCII table (32-127), the string length depends from the values of the *<width>* i *<rh>:*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Module Width** | **Module Height** | | | | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 2 | 960 | 960 | 960 | 960 | 960 | 930 | 790 |
| 3 | 720 | 690 | 480 | 400 | 320 | 280 | 240 |
| 4 | 400 | 290 | 220 | 160 | 140 | 120 | 100 |
| 5 | 120 | 75 | 50 | 40 | 30 | 25 | 20 |

*Example of PDF417*

|  |
| --- |
| ESC MFB qBQ:0:0:3:3:48:48:0:To jest kod PDF417 ESC MFE |
| ACK |

*The format of the command for the QRCode code*

|  |
| --- |
| ESC MFB qBR:model:modules:ecl:text ESC MFE |

*Arguments*

* *<model>* - code conversion model 0..1, by default 1
* *<modules>* - code module size in points 1..16, default 3
* *<ecl>* selection of error correction level 48 ... 51, default 0
* *<text>* - code content, allowed characters from the ASCII table (32-127), the string length depends on the values of the <modules> and <ecl> parameters:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PAPER 80 mm** | | | | | | | | | |
| **MODEL 1** | | | | | **MODEL 2** | | | | |
| Module Width | Error Correction Level (**ECL**) | | | | Module Width | Error Correction Level (**ECL**) | | | |
| **(MW)** | **L** | **M** | **Q** | **H** | **(MW)** | **L** | **M** | **Q** | **H** |
| **2** | 520 | 380 | 320 | 200 | **2** | 960 | 960 | 960 | 960 |
| **3** | 520 | 380 | 320 | 200 | **3** | 960 | 960 | 960 | 960 |
| **4** | 520 | 380 | 320 | 200 | **4** | 960 | 960 | 810 | 630 |
| **5** | 520 | 380 | 320 | 200 | **5** | 960 | 770 | 510 | 440 |
| **6** | 520 | 380 | 320 | 200 | **6** | 970 | 540 | 370 | 300 |
| **7** | 520 | 380 | 320 | 200 | **7** | 470 | 390 | 260 | 210 |
| **8** | 360 | 260 | 210 | 140 | **8** | 330 | 260 | 180 | 140 |
| **9** | 260 | 200 | 170 | 100 | **9** | 240 | 200 | 130 | 110 |
| **10** | 220 | 170 | 140 | 90 | **10** | 200 | 160 | 110 | 90 |
| **11** | 180 | 140 | 120 | 70 | **11** | 160 | 130 | 90 | 70 |
| **12** | 140 | 110 | 90 | 60 | **12** | 140 | 110 | 70 | 65 |
| **13** | 110 | 80 | 75 | 45 | **13** | 110 | 90 | 60 | 45 |
| **14** | 90 | 65 | 50 | 35 | **14** | 75 | 70 | 45 | 35 |
| **15** | 90 | 65 | 50 | 35 | **15** | 75 | 70 | 45 | 35 |
| **16** | 55 | 45 | 35 | 25 | **16** | 55 | 45 | 35 | 25 |

*Example of QRCode*

|  |
| --- |
| ESC MFB qBR:1:3:0:To jest QRCode ESC MFE |
| ACK |

*The format of command for MaxiCode*

|  |
| --- |
| ESC MFB qBS:model:tekst ESC MFE |

*Arguments*

* *<model*> - conversion model selection 2..6, default 5
* *<text> -* code content, allowed characters from the ASCII table (32-127), the length of the string depends on the ranges of the *<model>* parameter:

|  |  |
| --- | --- |
| **Conversion type** | **MAX number of characters (ASCII from 32 to 127)** |
| MODE 4 | 85 |
| MODE 5 | 69 |
| MODE 6 | 85 |

*Example of MaxiCode*

|  |
| --- |
| ESC MFB q B S :5:To jest MaxiCode ESC MFE |
| ACK |

## 4.4 Reports

### 4.4.1 Fiscal daily report

Format

|  |
| --- |
| ESC MFB B [LF c] ESC MFE |

Description

Closes the sales period, saves the daily record to the fiscal memory and generates a daily report printout.

*Arguments*

* *[LF c]* – adding this parameter will create a fiscal daily report in digital form without printing a paper version.

Acceptance conditions

Open sales period

Example

|  |
| --- |
| ESC MFB B ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767  nr wydr. 000076  RAPORT FISKALNY DOBOWY  000024  --------------------------------------------------------  Od: 14.06.2018 12:26  Do: 14.06.2018 13:56  --------------------------------------------------------  PTU A 23,00 %  PTU B 8,00 %  PTU C 5,00 %  PTU D 0,00 %  PTU E --,--  PTU F --,--  G SP.ZW  --------------------------------------------------------  SPRZEDAŻ OPOD. PTU A 77,80  SPRZEDAŻ OPOD. PTU B 0,00  SPRZEDAŻ OPOD. PTU C 0,00  SPRZEDAŻ OPOD. PTU D 0,00  SPRZEDAŻ OPOD. PTU AFV 159,11  SPRZEDAŻ OPOD. PTU BFV 0,00  SPRZEDAŻ OPOD. PTU CFV 0,00  SPRZEDAŻ OPOD. PTU DFV 0,00  SPRZEDAŻ ZWOL. PTU G 0,00  SPRZEDAŻ ZWOL. PTU GFV 0,00  KWOTA PODATKU PTU A 17,90  KWOTA PODATKU PTU B 0,00  KWOTA PODATKU PTU C 0,00  KWOTA PODATKU PTU D 0,00  KWOTA PODATKU PTU AFV 36,59  KWOTA PODATKU PTU BFV 0,00  KWOTA PODATKU PTU CFV 0,00  KWOTA PODATKU PTU DFV 0,00  ŁĄCZNA KWOTA PTU 54,49  ŁĄCZNA SPRZEDAŻ BRUTTO 291,40  --------------------------------------------------------  WALUTA EWIDENCYJNA: PLN  --------------------------------------------------------  ZDARZENIA  SYTUACJE AWARYJNE 000000  PROGRAMOWANIE:  L 000000  O 000000  --------------------------------------------------------  ZMIANY W BAZIE: 000000  --------------------------------------------------------  PARAGONY 000010  FAKTURY 000020  PARAGONY ANULOWANE 000001  10,00  FAKTURY ANULOWANE 000004  40,00  DOKUMENTY NIEFISKALNE 000001  --------------------------------------------------------  #001 Jan Kowalski  2018-06-14 13:56  3E9B578C237FD502F22FC3ACEA7123D4C56D04DA  ABC0123456789 |

### 4.4.2 Forced report of closing the fiscal day (daily report)

Format

|  |
| --- |
| ESC MFB B F ESC MFE |

Description

Closes the sales period, saves the daily record to the fiscal memory and generates a daily report printout. In the case when the fiscal day is closed and the previous one is not yet thrown into the protected memory, the command, unlike the normal daily report, does not return error.

Notes

* Receipt/invocie needs to be closed
* Printer is in a neutral state
* The opening of the next fiscal day and sale is possible only after the communication with the recording system has been restored

Acceptance conditions

The printer must be in the following state - open sales period and all tasks completed.

### 4.4.3 Periodic fiscal report

Format

|  |
| --- |
| ESC MFB H <report\_type> [<from> ESC MFB1 <to>] ESC MFE |

Description

Prints a periodic fiscal report. The range that the report covers can be defined in one of the following ways:

* From date to date
* From the daily report number to the daily report number
* Monthly report
* Report for the entire period - the report contains all daily records stored in fiscal memory
* Billing report - after printing the report, the fiscal memory is irreversibly switched into a read-only mode.

Arguments

* *<report\_type> -* selects the type of report:
  + i – from date to date
  + n – from numer to number
  + m - monthly
  + a – entire memory
  + r – billing report (a password is required) – entire memory
  + d - billing report (a password is required) – from date to date
  + l - billing report (a password is required) – from numer to number

(NOTE: character l is small L)

* *<from>…<to> -* gives the range of report. Data is interpeted in the context of the report type:
* i - (from date to date)

<from>, <to> = dd-mm-yy, the beginning and end of the date to be included in the report,

* n - (from number to number of the fiscal daily reports)

<from>, <to> = numbers of the fiscal daily reports,

* m - (monthly report)

<from> = mm-yy, defines month and a year, <to> can be ignored

* a - (a report from the whole range of memory)

Arguments <from> and <to> can be ignored, but if given, they are ignored anyway.

Acceptance conditions

Neutral state or read-only for all reports and open sales period for all reports except the billing one.

Example

|  |
| --- |
| ESC MFB Hi01-01-05 ESC MFB1 31-01-05 ESC MFE |
| ACK |
| ESC MFB Hn0 ESC MFB1 10 ESC MFE |
| ACK |
| ESC MFB Hm01-05 ESC MFE |
| ACK |

### 4.4.4 Total periodic report

Format

|  |
| --- |
| ESC MFB H <report\_type> [<from> ESC MFB1 <to>] ESC MFE |

Description

Prints total periodic report. The range that report covers can be defined by:

* From date to date
* From the daily report number to the daily report number
* Report for the entire period - the report contains all daily records stored in fiscal memory

Arguments

* *<report\_type> -* selects the type of report:
  + k – from date to date
  + j – from number to number
  + b - entire memory
* *<from>, <to> -* gives the range of report. Data is interpeted in the context of the report type:
  + k - (from date to date)

<from>, <to> = dd-mm-yy, the beginning and end of the date to be included in the report,

* + j - (from number to number of the fiscal daily reports)

<from>, <to> - numbers of the fiscal daily reports,

* + b - (a report from the whole range of memory)

Arguments <from> and <to> can be ignored, but if given, they are ignored anyway.

Acceptance conditions

Neutral state or read-only state

Example

|  |
| --- |
| ESC MFB Hk01-01-05 ESC MFB1 31-01-05 ESC MFE |
| ACK |
| ESC MFB Hj0 ESC MFB1 10 ESC MFE |
| ACK |
| ESC MFB Hb ESC MFE |
| ACK |

### 4.4.5 Accounting fiscal report

Format

|  |
| --- |
| ESC MFB H <report\_type> [<from> ESC MFB1 <to>] <password> ESC MFE |

Description

Printing an accounting report will permanently switch the fiscal module into read-only mode. The data will not be recorded in fiscal memory and further sale will not be possible. The range that the report covers can be defined in one of the following ways:

* From date to date
* From number to number
* Report for the entire period - the report contains all daily records stored in fiscal memory

Arguments

* *<report\_type> -* selects the type of report:
  + d – from date to date (password is required)
  + l – from numer to number (password is required)

(NOTE: character l is small L)

* + r - entire memory (password is required)
* *<from>, <to> -* gives the range of report. Data is interpeted in the context of the report type:
  + d - (from date to date)

dd-mm-yy, the beginning and end of the date to be included in the report,

* + l - (from number to number of the fiscal daily reports),
  + a - (a report from the whole range of memory) - Arguments <from> and <to> can be ignored, but if given, they are ignored anyway.
* *<password>* - accounting report needs to be confirmed with password: „123456”.

Acceptance conditions

Neutral state and read-only state

Example

|  |
| --- |
| ESC MFB Hr123456 ESC MFE |
| ACK |

### 4.4.6 Fiscal event report

*Format*

|  |
| --- |
| ESC MFB U n | i <min\_nr | min\_date> ESC MFB1 <max\_nr | max\_date>] [ESC MFB2 event\_type] ESC MFE |

|  |
| --- |
| ESC MFB U a [ESC MFB1 <event\_type>] ESC MFE |

*Description*

The command causes printing of fiscal event reports.

*Arguments*

|  |  |  |
| --- | --- | --- |
| n | - | Printing event reports by fiscal daily report numbers (RFD) |
| i | - | Printing event reports according to dates |
| a | - | Printing all event reports from fiscal memory |

* *<min\_nr>, <max\_nr>* -Range of fiscal report days. Range from 1 to 9999.
* *<min\_date>, <max\_date>* - range of dates for printouts of event reports in DD-MM-YY format.
* *<event\_type>* - type of event. The optional parameter, if it is not provided, a combined report will be printed for all types of events. The parameter may take the name:

|  |  |  |
| --- | --- | --- |
| *err\_continuum* | - | loss of continuity of document numbering |
| *err\_sales\_lock* | - | blocking of sales registration |
| *err\_protec\_data* | - | data verification error in protected memory report |
| *err\_ram\_clear* | - | emergency operating memory reset report |
| *err\_power\_break* | - | power failure report |
| *sale\_address* | - | a change of sales address report |
| *vat\_change* | - | a report of changes in VAT rates |
| *protec\_change* | - | protected memory swap report |
| *date\_change* | - | date and time change report |
| *currency\_change* | - | a change in the registration currency report. |
| *database\_clean* | - | report of deleting the database of the verification algorithm |
| *serv\_mode\_on* | - | report of turning on a service mode |
| *serv\_mode\_off* | - | report of turning off a service mode |
| *technical\_survey* | - | technical inspection report |
| *program\_update* | - | report of the cash register work program update |
| *err\_prg\_update* | - | report of the cash register program update error |
| *update\_source* | - | report of programming the source of cash register work program |
| *repo\_config* | - | report of changing the data transfer configuration |
| *key\_change* | - | public key exchange report |
| *fiscalization* | - | fiscalization report |
| *end\_of\_life* | - | report of closing the fiscal memory |

*Example*

|  |
| --- |
| ESC MFB Ua ESC MFB1 serv\_mode\_on ESC MFE |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767  RAPORT ZDARZEŃ  WŁĄCZENIE TRYBU SERWISOWEGO  Od: 2018-06-12 14:07 RFD: 0000  Do: 2018-06-13 16:00 RFD: 0013  --------------------------------------------------------  Data zdarzenia: 2018-06-12 14:07  Nr doby: 2  --------------------------------------------------------  Data zdarzenia: 2018-06-13 16:00  Nr doby: 2  --------------------------------------------------------  2018-06-13 16:36  <PL>ABC0123456789 |
| ESC MFB Ui 01-01-18 ESC MFB1 30-06-18 ESC MFB2 err\_ram\_clear ESC MFE |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767  RAPORT ZDARZEŃ  AWARYJNE ZEROWANIE PAMIĘCI OPER.  Od: 2018-06-13 08:36 RFD: 0005  Do: 2018-06-13 16:00 RFD: 0013  --------------------------------------------------------  Data zdarzenia: 2018-06-13 08:36  Nr doby: 6  --------------------------------------------------------  Data zdarzenia: 2018-06-13 16:00  Nr doby: 13  --------------------------------------------------------  2018-06-13 16:45  <PL>ABC0123456789 |
| ESC MFB Un 0 ESC MFB1 12 ESC MFE |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767  RAPORT ZDARZEŃ  ŁĄCZNY  Od: 2018-06-12 13:50 RFD: 0000  Do: 2018-06-13 10:02 RFD: 0010  --------------------------------------------------------  ZMIANA WALUTY EWIDENCYJNEJ  Data zdarzenia: 2018-06-12 13:50  Nr doby: 2  Nowa waluta: EUR  Zaokrąglenie: -2  --------------------------------------------------------  WŁĄCZENIE TRYBU SERWISOWEGO  Data zdarzenia: 2018-06-12 14:07  Nr doby: 2  --------------------------------------------------------  2018-06-13 16:48  <PL>ABC0123456789 |

### 4.4.7 Printout of X report

Format

|  |
| --- |
| ESC MFB O ESC MFE |

Description

Prints a non-fiscal report that does not close sales and does not save data in fiscal memory.

Example of printout of X report

|  |
| --- |
| ESC MFB O ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  DRUKARKA FISKALNA  NIP 9281838767  nr wydr.000476/1406  NIEFISKALNY  RAPORT X  PTU A 23,00 %  PTU B 8,00 %  PTU C 5,00 %  PTU D 0,00 %  PTU E 0,00 %  PTU F --,--  G SP.ZW  ------------------------------------------  SPRZEDAŻ OPOD. PTU A 4,63  SPRZEDAŻ OPOD. PTU B 0,00  SPRZEDAŻ OPOD. PTU C 0,00  SPRZEDAŻ OPOD. PTU D 0,00  SPRZEDAŻ OPOD. PTU E 0,00  SPRZEDAŻ OPOD. PTU AFV 0,00  SPRZEDAŻ OPOD. PTU BFV 0,00  SPRZEDAŻ OPOD. PTU CFV 0,00  SPRZEDAŻ OPOD. PTU DFV 0,00  SPRZEDAŻ OPOD. PTU EFV 0,00  SP.ZW PTU G 0,00  SP.ZW PTU GFV 0,00  KWOTA PODATKU PTU A 1,07  KWOTA PODATKU PTU B 0,00  KWOTA PODATKU PTU C 0,00  KWOTA PODATKU PTU AFV 0,00  KWOTA PODATKU PTU BFV 0,00  KWOTA PODATKU PTU CFV 0,00  ŁĄCZNA KWOTA PTU 1,07  ŁĄCZNA NALEŻNOŚĆ 5,70  ------------------------------------------  WALUTA EWIDENCYJNA: PLN  ------------------------------------------  ZMIANY W BAZIE: 000000  ------------------------------------------  PARAGONY 0000001  FAKTURY 0000000  PARAGONY ANULOWANE 0000000  0,00  FAKTURY ANULOWANE 0000000  0,00  DOKUMENTY NIEFISKALNE 0000000  ------------------------------------------  NIEFISKALNY  #123 Kasjer 34  2018-06-28 09:00  ASDFGHOKTG23780855DFIJ78U56RF9OI90OIR  ABC0123456789 |

### 4.4.8 Open control printout of the list of products

Format

|  |
| --- |
| ESC MFB W a <VAT> ESC MFE |

Description

Initiates a printout of the list of goods.

Arguments

* *<VAT> -* defines the tax rate A...G.

Acceptance conditions

Neutral state or open sales period. Next command must verify goods in the fiscal module’s comodity database or finish the control printout.

Example

|  |
| --- |
| ESC MFB WaA ESC MFE |
| ACK |

### 4.4.9 Product verification in the commodity database of the fiscal module

Format

|  |
| --- |
| ESC MFB W b <product’s\_name> ESC MFE |

Description

After opening the control printout of the goods, the command checks whether the goods are in the fiscal module's commodity database. Prints a line from the list of goods containing the product name and specification of all tax rates assigned to this name, stored in the fiscal module's commodity base or '?' When the goods were not sold.

Arguments

* <product’s\_name> - product’s name that should be verified with the commodity base.

Acceptance conditions

Open printout of the list of goods. Next command must be the same or finish the control printout.

Example

|  |
| --- |
| ESC MFB WbTOWAR-A ESC MFE |
| ACK |

### 4.4.10 Finish the control printout

Format

|  |
| --- |
| ESC MFB W c ESC MFE |

Description

After completing the verification of the goods, the command ends the printout of the goods list and goes to the neutral state.

Acceptance conditions

Open printout of the list of goods.

Example

|  |
| --- |
| ESC MFB Wc ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767  nr wydr.000477/0290  NIEFISKALNY  **WYDRUK KONTROLNY TOWARÓW**  CHLEB RAZOWY  PTU: 23.00%  Liczba zweryfikowanych towarów: 1  Liczba zweryfikowanych towarów w bazie: 1  NIEFISKALNY  2018-06-15 20:48  3E9B578C237FD502F22FC3ACEA7123D4C56D04DA  ABC0123456789 |

### 4.4.11 Report of blocked products

Format

|  |
| --- |
| ESC MFB Y ESC MFE |

Description

Prints a list of items whose sales have been blocked as a result of unauthorized changes to the tax rate.

Acceptance conditions

Neutral state, open sales period or read-only mode

Example

|  |
| --- |
| ESC MFB Y ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767  nr wydr.000479/0290  NIEFISKALNY  **RAPORT TOWARÓW ZABLOKOWANYCH**  CHLEB RAZOWY  PTU: 23.00% 08.00% 23.00%  NIEFISKALNY  #001 Jan Kowalski  2018-06-15 20:48  9E9B178C236FD502F22FC3A5EA71289D2C563048A  ABC0123456789 |

### 4.4.12 Tax rates report

Format

|  |
| --- |
| ESC MFB K G ESC MFE |

Description

Prints the history of VAT rates stored in fiscal memory.

Acceptance conditions

Neutral state, open sales period or read-only mode

Example

|  |
| --- |
| ESC MFB KG ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767  nr wydr.000479/0290  NIEFISKALNY  ------------------------------------------  RAPORT STAWEK PODATKOWYCH  ------------------------------------------  Liczba tablic podatkowych: 000004  ------------------------------------------  00001 2018-06-12 13:24  PTU A 23,00 %  PTU B 8,00 %  PTU C 5,00 %  PTU D 0,00 %  PTU E --,--  PTU F --,--  G SP.ZW  ------------------------------------------  Koniec raportu stawek podatkowych VAT  NIEFISKALNY  #001 Jan Kowalski  2018-06-15 20:48  9E9VXSW8C236FD502F22JASJCVS8923HDC563048A  ABC0123456789 |

## 4.5 Handling graphics

The printer allows you to print monochrome graphics. A set of graphics presented in the table below has been implemented in the cash register program. In addition, it is possible to load any graphics and print them in front of the header or in the footer of fiscal documents. For non-fiscal documents it is possible to print them before the header and in the content. User may enable graphics. To do this the configuration parameters need to be changed (described below) in the service program.

**List of graphic available in the firmware:**

|  |  |  |  |
| --- | --- | --- | --- |
| CGS00997  pic1 | CGS00998  pic2 | CGS02296  pic3 | CGS03189  pic4 |
| CGS03192  pic5 | CGS03376  pic6 | CGS02315  pic7 | CGS03476  pic8 |
| CGS03385  pic9 | CGS04003  pic10 | CGS12183  pic11 | CGS03477  pic12 |
| CGS04007  pic13 | CGS04026  pic14 | CGS12200  pic15 | CGS06123  pic16 |
| CGS06420  pic17 | CGS07115  pic18 | CGS12336  pic19 | CGS07117  pic20 |
| CGS07118  pic21 | CGS07333  pic22 | CGS12253  pic23 | CGS07299  pic24 |
| CGS07250  pic25 | CGS07209  pic26 | pic27 | CGS07208  pic28 |
| CGS07204  pic29 | CGS07201  pic30 | pic31 | CGS07196  pic32 |
| CGS07195  pic33 | CGS07156  pic34 | CGS07300  pic35 | s3  pic36 |
| s5  pic37 | s4  pic38 | CGS07261  pic39 | s6  pic40 |
| CGS07137  pic41 | CGS07132  pic42 | CGS07260  pic43 | CGS07130  pic44 |

Up to 8 external graphics can be defined. If you use the entire space intended for defined graphics, you can delete them individually or delete them all at once.

The graphic printout before the header is defined by using the parameters: graph.bhead\_fiscal (the parameter only works for fiscal receipts) and graph.bhead\_nonfiscal (Description in point 4.7.13). Selecting one of the parameters from 1 to 8 defines the number of the defined graphic, while the parameter 100 enables printing a graphic defined permanently in the printer's firmware (which was previously initialized).

### 4.5.1 Initialization of the image loading

Format

|  |
| --- |
| ESC MFB ( L B <number> LF <colour> LF < X > LF < Y > [ LF <name>] ESC MFE |

*Arguments*

* *<X>* – width (pixels) – max 360
* *<Y>–* height (pixels) - max 256
* *<number>* - the number of the defined image (from 1 to 8)
* *<colour>* - from 1 to 99 where:

1 – black and white image printed from inverted bitmap data

2...99 – reserved for future use

* *[ LF <name>]* – optional parameter allowing to define the name of the graphic (max 16 characters)

The size of the graphic must be a multiple of 8.

The graphics must be saved as a monochrome bitmap (bmp).

Graphics must be sent to the printer in the form of an array of hexadecimal pixel values.

*Example*

|  |
| --- |
| ESC MFB (LB1 LF 1 LF 360 LF 256 LF grafika ESC MFE |
| ACK |

### 4.5.2 Loading graphic data

Format

|  |
| --- |
| ESC MFB ( L D <MSB LSB> <D0 ... D(N-1)> ESC MFE |

Arguments

* *<MSB LSB>* - determining the ordering of bytes in a packet of data sent to the printer
* N – amount of data bytes, N = MSB \* 256 + LSB (max 128 bytes)
* D0...D(N-1) – bytes of image data

Example

|  |
| --- |
| ESC MFB (LD NUL 0x80 0xDD MFE f 0xDD MFE n 0xD9 MFE n 0xD9 0xB7 l 0xD9 0xB6 l 0xDB 0xB6 m 0xDB 6m 0xDB 6 0xED 0x9B 6 0xCD 0x9B v 0xCD 0xBB f 0xDD MFE f 0xDD MFE n 0xD9 MFE n 0xD9 0xB7 o 0xFF 0xB7 0xFC 0xDB 0xBE m 0xDB 6o 0xDB 6 0xED 0x9B 0xFE 0xDD 0xFB v 0xCF 0xBB f 0xDD 0xBF ~ 0xDD 0xBF n 0xDF 0xBF n 0xDF 0xB7 o 0xDF 0xB7 0xEF 0xDB 0xB7 0xED 0xDB 0xF7 0xED 0xDB 0xF6 0xED 0xFB 0xF6 0xFD 0xFB v 0xFD 0xBB ~ 0xDD 0xBF ~ 0xDD 0xBF n 0xDF 0xBF n 0xDF 0xB7 o 0xFF 0xB7 0xFF 0xDB 0xBF 0xED 0xDB 0xFF 0xEF 0xDB 0xF6 0xED 0xFF 0xFF 0xFD 0xFB V 0xFF 0xA9 | ESC MFE |
| ACK |
| ESC MFB (LD NUL 0x80 - 0xB6 0xB6 0xDA [m- 0xB6 0x86 0xD9 K- 0xA9 0x96 V 0xC3 Jm 0x85 MFB2 0xD2 0x99 aL MFB1 0xA6 X 0xD3 (i 0x94 4 0xCA 0x1A e 0x0C 2 0x86 0x19 S 0x0C) 0x86 0x16 0xDB Km 0xA5 0xB6 0xD2 0xDB km 0xA5 0xB6 R 0xDB ii 0xB4 2 0xDA 0x10 e 0xC9 0x9A % 0xC9 MFB2 d 0xC9 0x12 d 0xC9 2t 0x89 2D 0x99 2L 0x99 L 0x99 &L 0x91 &H 0x93 &I 0x93 $ 0xC9 0x92 $ 0xC9 0x92 d 0xC9 0x12 d 0xC9 2e 0xFF 0xBE 0xF6 0x99 {O 0xB9 MFB2 \ 0xDB &L 0x97 0xBE 0xF8 0xDF 0xFD 0x93 $ ESC MFE |
| ACK |

### 4.5.3 The end of loading graphics

Format

|  |
| --- |
| ESC MFB ( L A ESC MFE |

Description

The command starts the process of sending image data to the mechanism of the printer. A reply response is sent when all data has been stored in the printer's RAM.

Example

|  |
| --- |
| ESC MFB (LA ESC MFE |
| ACK |

### 4.5.4 Canceling graphics loading

*Format*

|  |
| --- |
| ESC MFB (L C ESC MFE |

*Description*

The command interrupts the process of sending image data to the mechanism of the printer.

*Example*

|  |
| --- |
| ESC MFB (L C ESC MFE |
| ACK |

### 4.5.5 Graphic printout

Format

|  |
| --- |
| ESC MFB ( P <number> LF B LF C LF 0 ESC MFE |

Description

The comand to print the graphics. The command remembers the given number of the graphic and sets it on the next fiscal or non-fiscal printout before the header (except for error printout or warning printout). In the case of non-fiscal document, the printout takes place immediately.

*Example*

|  |
| --- |
| ESC MFB (P1 LF B LF C LF 0 ESC MFE |
| ACK |

### 4.5.6 Deleting graphics

Format

|  |
| --- |
| ESC MFB ( E <number> ESC MFE |

Arguments

* *<number>* = 0 – removes all images
* *<number>* = od 1 do 8 – removes given images

Example

|  |
| --- |
| ESC MFB (E1 ESC MFE |
| ACK |

### 4.5.7 Readout of the graphic’s checksum

Format

|  |
| --- |
| ESC MFB ( R <number> ESC MFE |

Description

After loading the graphic image, its checksum CRC32 is calculated and then stored in the printer. The above instruction allows you to read this checksum. After removing the graphic, its checksum is also deleted.

Arguments

* *<number>* - from 1 to 8 – the number of the graphic

Example

|  |
| --- |
| ESC MFB (R1 ESC MFE |
| ACK |

## 4.6 Pre-defined reference printouts

### 4.6.1 General

According to fiscal requirements, all non-fiscal documents that are printed on a fiscal device must be predefined. Pre-defined documents can be printed in accordance with the following rules:

* Each reference printout is marked with unique identifying number,
* Each formatted printout is integral part of the fiscal module control program and specify the content of the document and its distribution,
* The printout consists of numbered, parameterized lines of text.

Text lines must be sent to print in the order defined by the reference format.

### 4.6.2 Beginning / continuation of the predefined printout

Format

|  |
| --- |
| ESC MFB Z <parameter> ESC MFE |

Description

Prints a non-fiscal document based on a predefined output format.

Arguments

* *<parameter> -* specifies number of the predefined format, line number and its data.

Notes

The text line must be sent to the printer in the order specified by the output format. The printout can be adapted to current needs through the appropriate selection of lines.

Acceptance conditions

Neutral state or open sales period.

### 4.6.3 Separation line printout on a predefined printout

Format

|  |
| --- |
| ESC MFB Z <parameter><type> ESC MFE |

Description

Prints separation lines.

*Arguments*

* *<parameter>* - reference printout number
* *<type>* 
  + ‘0x20 0x20' (double space) prints blank lines.Max 10 lines can be sent in once.
  + '- - ' – prints a separating line composed of characters '-'.
  + '= = ' – prints a separating line composed of characters '='.

Lines composed of characters '-' and '=' can be used once. It is not possible to use these two lines at the same time.

*Example*

|  |
| --- |
| ESC MFB Z2801 ESC MFE 0x0D LF |
| ACK |
| ESC MFB Z2802 ESC MFE 0x0D LF |
| ACK |
| ESC MFB Z28== ESC MFE 0x0D LF |
| ACK |
| ESC MFB Z2805 ESC MFE 0x0D LF |
| ACK |
| ESC MFB N ESC MFE 0x0D LF |
| ACK |

### 4.6.4 The end of the predefined printout

Format

|  |
| --- |
| ESC MFB N ESC MFE |

Description

Leaves the pre-defined printout.

Example

|  |
| --- |
| ESC MFB Z2801 ESC MFE |
| ACK |
| ESC MFB Z2802 ESC MFE |
| ACK |
| ESC MFB Z2803 ESC MFE |
| ACK |
| ESC MFB Z2804 103 11,99 ESC MFE |
| ACK |
| ESC MFB Z2805 ESC MFE |
| ACK |
| ESC MFB Z28 ESC MFE |
| ACK |
| ESC MFB Z28-- ESC MFE |
| ACK |
| ESC MFB Z28 ESC MFE |
| ACK |
| ESC MFB Z2807 ESC MFE |
| ACK |
| ESC MFB Z2808 SP SP SP 1876-8932 SP SP SP ESC MFE |
| ACK |
| ESC MFB Z2809 ESC MFE |
| ACK |
| ESC MFB Z28 ESC MFE |
| ACK |
| ESC MFB Z28== ESC MFE |
| ACK |
| ESC MFB Z28 ESC MFE |
| ACK |
| ESC MFB Z280C ESC MFE |
| ACK |
| ESC MFB N ESC MFE |
| ACK |

### 4.6.5 Formats of predefined printouts

*Parameters*

* *<par#>* - Numeric parameter - digits + up to 3 letters + characters:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ą | ć | ę | ł | ń | ó | ś | ź | ż | Ą | Ć | Ę | Ł | Ń | Ó | Ś | Ź | Ż |

In chosen code page

* *<par@>* - Text parameter - letters + Polish diacritics + up to 3 digits
* *<par&>* - Alphanumeric parameter - unlimited

Changing the size of the font causes the printout to be rescaled at the expense of the space between the line description and the parameter values.

At paper width less than 80 mm, it is recommended to use only "50" - Non-fiscal document. In the following examples, some maximum ranges of text on the predefined formats are marked with navy blue that will be printed on 56 mm paper.

#### 4.6.5.1 Short report

|  |  |
| --- | --- |
| Reference number: | 00 |
| 01 RAPORT SKRÓCONY  02  Rodzaje płatności  RAZEM KWOTA  A0 Konto klienta : #########,## <par#>  A1 Routex : #########,## <par#>  A2 LOMO : #########,## <par#>  A3 DKV : #########,## <par#>  A4 UTA : #########,## <par#>  A5 Routex Manual : #########,## <par#>  A6 LOMO Manual : #########,## <par#>  A7 DKV Manual : #########,## <par#>  A8 UTA Manual : #########,## <par#>  A9 Karta bankowa i T&E: #########,## <par#>  03 Rachunki : #########,## <par#>  04 Karty EFT : #########,## <par#>  05 Full Pan : #########,## <par#>  06 Karty kredytowe : #########,## <par#>  07 Czeki : #########,## <par#>  08 Vouchery : #########,## <par#>  09 Gotówka w @@@ : #########,## <par#>  0A Dewizy przel. : #########,## <par#>  0B --------------------------------------------------------  RAZEM ##########,## <par#>  0C  Przychody  0D Kwota otwarcia : #########,## <par#>  0E Sprzedaż : #########,## <par#>  0F Wpłaty : #########,## <par#>  10 Wpłyn. na rach. : #########,## <par#>  11 Różnice inkaso : #########,## <par#>  12 --------------------------------------------------------  RAZEM ##########,## <par#>  13  Rozchody  14 Zwroty : #########,## <par#>  15 Wypłaty : #########,## <par#>  16 --------------------------------------------------------  RAZEM ##########,## <par#>  17  Płatności w @@@  18 Czeki w sejfie : #########,## <par#>  19 Czeki w kasie : #########,## <par#>  1A --------------------------------------------------------  RAZEM ##########,## <par#>  1B  1C Vouch. w sejfie : #########,## <par#>  1D Vouch. w kasie : #########,## <par#>  1E --------------------------------------------------------  1F RAZEM ##########,## <par#>  20  21 Gotówka w sejfie: #########,## <par#>  22 Gotówka w kasie : #########,## <par#>  23 --------------------------------------------------------  RAZEM ##########,## <par#>  24  Płatności w walutach  25 EURO w sejfie : #########,## <par#>  26 EURO w kasie : #########,## <par#>  27 --------------------------------------------------------  RAZEM ##########,## <par#>  28  29 USD w sejfie : #########,## <par#>  2A USD w kasie : #########,## <par#>  2B --------------------------------------------------------  RAZEM ##########,## <par#>  2C  2D GBP w sejfie : #########,## <par#>  2E GBP w kasie : #########,## <par#>  2F --------------------------------------------------------  RAZEM ##########,## <par#>  30  Sejf  31 Nr schowka #### <par#>  32 Gotówka w @@@ : #########,## <par#>  33 Czeki : #########,## <par#>  34 Voucher : #########,## <par#>  35 EURO : #########,## <par#>  36 USD : #########,## <par#>  37 GBP : #########,## <par#>  38  Zmiana nr ### <par#>  39 Kasjer: @@@@@@@@@@@@@@@@@@@@ <par@>  3A  // Lines can not be repeated  // Line 01, lines of headlines and summaries should be sent in the right order  // The @@@ string is completed automatically by reading the printer's registration currency. | |

#### 4.6.5.2 Cashier's report

|  |  |
| --- | --- |
| Reference number: | 01 |
| 01 RAPORT KASJERA    02 Rodzaje płatności  RAZEM KWOTA  A0 Konto klienta : #########,## <par#>  A1 Routex : #########,## <par#>  A2 LOMO : #########,## <par#>  A3 DKV : #########,## <par#>  A4 UTA : #########,## <par#>  A5 Routex Manual : #########,## <par#>  A6 LOMO Manual : #########,## <par#>  A7 DKV Manual : #########,## <par#>  A8 UTA Manual : #########,## <par#>  A9 Karta bankowa i T&E: #########,## <par#>  03 Rachunki : #########,## <par#>  04 Karty EFT : #########,## <par#>  05 Full Pan : #########,## <par#>  06 Karty kredytowe : #########,## <par#>  07 Czeki : #########,## <par#>  08 Vouchery : #########,## <par#>  09 Gotówka w @@@ : #########,## <par#>  0A Dewizy przel. : #########,## <par#>  0B --------------------------------------------------------  RAZEM ##########,## <par#>  0C  Przychody  0D Kwota otwarcia : #########,## <par#>  0E Sprzedaż : #########,## <par#>  0F Wpłaty : #########,## <par#>  10 Wpłyn. na rach : #########,## <par#>  11 Różnice inkaso : #########,## <par#>  12 --------------------------------------------------------  RAZEM ##########,## <par#>  13  Rozchody  Zwroty : #########,## <par#>  14 Wypłaty : #########,## <par#>  15 Kwota zamknięcia: #########,## <par#>  16 --------------------------------------------------------  RAZEM ##########,## <par#>  17  Płatności w @@@  18 Czeki w sejfie : #########,## <par#>  19 Czeki w kasie : #########,## <par#>  1A --------------------------------------------------------  RAZEM ##########,## <par#>  1B  1C Vouch. w sejfie : #########,## <par#>  1D Vouch. w kasie : #########,## <par#>  1E --------------------------------------------------------  1F RAZEM ##########,## <par#>  20  21 Gotówka w sejfie: #########,## <par#>  22 Gotówka w kasie : #########,## <par#>  23 --------------------------------------------------------  RAZEM ##########,## <par#>  24  Płatności w walutach  25 EURO w sejfie : #########,## <par#>  26 EURO w kasie : #########,## <par#>  27 --------------------------------------------------------  RAZEM ##########,## <par#>  28  29 USD w sejfie : #########,## <par#>  2A USD w kasie : #########,## <par#>  2B --------------------------------------------------------  RAZEM ##########,## <par#>  2C  2D GBP w sejfie : #########,## <par#>  2E GBP w kasie : #########,## <par#>  2F --------------------------------------------------------  RAZEM ##########,## <par#>  30  Sejf  31 Nr schowka #### <par#>  32 Gotówka w @@@ : #########,## <par#>  33 Czeki : #########,## <par#>  34 Voucher : #########,## <par#>  35 EURO : #########,## <par#>  36 USD : #########,## <par#>  37 GBP : #########,## <par#>  38  Rozliczenie kasjera  39 Czeki w kasie : #########,## <par#>  3A Zliczono czeki : #########,## <par#>  3B --------------------------------------------------------  RÓŻNICA #########,## <par#>  3C  3D Vouch w kasie : #########,## <par#>  3E Zlicz. vouch. : #########,## <par#>  3F --------------------------------------------------------  RÓŻNICA #########,## <par#>  40  41 Gotówka w @@@ : #########,## <par#>  42 Zliczono gotów. : #########,## <par#>  43 --------------------------------------------------------  RÓŻNICA #########,## <par#>  44  45 EURO w kasie : #########,## <par#>  46 EURO zliczono : #########,## <par#>  47 --------------------------------------------------------  RÓŻNICA #########,## <par#>  48  49 USD w kasie : #########,## <par#>  4A USD zliczono : #########,## <par#>  4B --------------------------------------------------------  RÓŻNICA #########,## <par#>  4C  4D GBP w kasie : #########,## <par#>  4E GBP zliczono : #########,## <par#>  4F --------------------------------------------------------  RÓŻNICA #########,## <par#>  50  Zmiana zamknięta  51 Zmiana nr ### <par#>  52 Kasjer: @@@@@@@@@@@@@@@@@@@@ <par@>    // Lines can not be repeated  // Line 01, lines of headlines and summaries should be sent in the right order  // The @@@ string is completed automatically by reading the printer's registration currency. | |

#### 4.6.5.3 Check collection

|  |  |
| --- | --- |
| Reference number: | 02 |
| 01 INKASO CZEKU  02 Numer:###### <par#>  03  Czek: #######,## <par#>  // Lines can be repeated  // Line 02 centered | |

#### 4.6.5.4 Deposit / withdrawal receipt

|  |  |
| --- | --- |
| Reference number: | 03 |
| 01  02 POKWITOWANIE WPŁATY  03 POKWITOWANIE WYPŁATY  04 Numer:###### <par#>  05 Komu: @@@@@@@@@@@@@@@@@@@ <par@>  06 TYTUŁ WPŁATY/WYPŁATY ILE  08 Zabezpieczenie ##########,## <par#>  09 Do zafakturowania ##########,## <par#>  0A Bilon ##########,## <par#>  0B Wpłata 1 ##########,## <par#>  0C Wpłata 2 ##########,## <par#>  0D Sejf ##########,## <par#>  0E Wypłata 1 ##########,## <par#>  0F Wypłata 2 ##########,## <par#>  10 Do banku ##########,## <par#>  11 Bilon ##########,## <par#>  12 Wypłata ##########,## <par#>  13 --------------------------------------------------------  14 Razem ##########,## <par#>  15  Powyższą kwotę otrzymałem    ---------------------------  PODPIS  \\ Lines can be repeated | |

#### 4.6.5.5 Beginning / closing the cashier's shift

|  |  |
| --- | --- |
| Reference number: | 06 |
| 01  02 Rozpoczęcie pracy kasjera  03 Zakończenie pracy kasjera  04  05 Numer kasjera : ############### <par#>  06 Numer klucza kasjera: ############### <par#>  07 Numer kasy : ############### <par#>  08 Numer paragonu : ############### <par#>  09 Numer zmiany : ############### <par#>  10 Kasjer: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  0A Nazwa kasjera : @@@@@@@@@@@@@@@ <par@>  \\ Lines can be repeated | |

#### 4.6.5.6 Payment by credit card

|  |  |
| --- | --- |
| Reference number: | 07 |
| 01  02 Data: 2018-08-07 Godz.: 12:00 <par#>  03  05  06 TID: ######## MID: ############### <par#>  07 Rachunek nr: ############ Paczka: ###### <par#>  08 Rachunek nr: ############ <par#>  09 Do transakcji: ############ Kasa: #### <par#>  10 Kasa: #### <par#>  11 Kasjer: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  12  13 Karta: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  14 ###################### Ważna do: #### <par#>  15 Okaziciel: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  16  17 SPRZEDAŻ: ############# <par#>  25 UZNANIE: ############# <par#>  70  26 UNIEWAŻNIENIE  27 REJESTRACJA  28  29 Do rachunku nr: ############ <par#>  30  31 Sprzedaż: ############# <par#>  33 Uznanie: ############# <par#>  34 PROSZĘ OBCIĄŻYĆ MOJE KONTO  35 PLEASE DEBIT MY ACCOUNT  36 PROSZĘ UZNAĆ MOJE KONTO  37 PLEASE CREDIT MY ACCOUNT  38  39 TRANSAKCJA UNIEWAŻNIONA  40 TRANSAKCJA ZAREJESTROWANA  41 \*\*ODMOWA\*\*  42 \*OPERACJA NIEWYKONALNA\*  43 \*\*OPERACJA PRZERWANA\*\*  44 ......................................  45 Podpis posiadacza karty  46 Signature of cardholder  47 TRANSAKCJA POTWIERDZONA KODEM PIN  48  49 Powód: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  50  51 Kod aut.: ############# <par#>  52 Kod aut.: ############# STAN: ###### <par#>  53 Kod aut.: ################# STAN: ###### <par#>  54 ### STAN: ###### <par#>  55 STAN: ###### <par#>  56 Kod odpowiedzi: ######### <par#>  57 Kod odpowiedzi: ######### STAN: ###### <par#>  58  59 Dziękujemy za odwiedziny  60 Proszę zachować rachunek  61  \\ you should enter the line 02 according to the pattern  \\ Do not add spaces or other separations between two strings on one line  \\ line 14 can be used to complete the sequence of numbers from line 13, giving only 4 digits only replenishes the field „Ważna do:”  \\ lines 3,5, 12, 16, 70, 38, 48 can be repeated any number of times  \\ 17 and 25 double height lines | |

#### 4.6.5.7 Deposit / withdrawal receipt

|  |  |
| --- | --- |
| Reference number: | 08 |
| 01  02 POKWITOWANIE WPŁATY  03 POKWITOWANIE WYPŁATY  11 POTWIERDZENIE WPŁATY DO SEJFU  12 WYPŁATA DO SZAFY  13 PRZEKAZANIE KOPERTY DO ASYSTENKI  1F  04 DATA:2018-08-09 <par#>    05 NUMER : ######################### <par#>  13 --------------------------------------------------------  20 KOPERTA : ######################### <par#>  21 WRZUTNIA : ######################### <par#>  22 PLOMBA : ######################### <par#>  23 TUBA : ######################### <par#>  24 NR KASJERA : ######################### <par#>  06 KASJER : @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  30 UZASADNIENIE: @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  31 POWÓD : @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  32 ŚRODEK PŁATNICZY: @@@@@@@@@@@@@@@@@@@@@ <par@>  07 KWOTA : ######################### <par#>  38 KWOTA TRANSFERU: ###################### <par#>  40  41 NUMER KONTA :  42 ##################################### <par#>  50  51 DATA/CZAS ZADEKLAROWANIA PRZESYŁKI:  52 ##################################### <par#>  60  61 DATA/CZAS DOTARCIA DEPOZYTU DO SKARBCA:  62 ##################################### <par#>  63  64 DATA/CZAS TRANSFERU:  65 ##################################### <par#>  66  67 NR KASJERA ODPOW. ZA OBSŁUGĘ GOTÓWKI:  68 ################## <par#>  70  71 Wystąpiły problemy z komunikacją!  72 Datę/czas dotarcia depozytu do skarbca  73 prosimy sprawdzić na wydruku  74 w pomieszczeniu skarbca.  08  ......................................  PODPIS  E0  ......................................  E1 PODPIS OSOBY OTRZYMUJĄCEJ  E2 PODPIS KASJERA  E3              ......................................  E4 PODPIS OSOBY ODPOWIEDZIALNEJ  E5 PODPIS OSOBY FUNKCYJNEJ  F0  F1 UWAGI: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  F2 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  F3 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  F4 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  \\ line 04 centered and should be entered as in example  \\ lines F2 to F4 are printed if the previous line has been printed | |

#### 4.6.5.8 Order receipt

|  |  |
| --- | --- |
| Reference number: | 09 |
| 01  02 KWIT ZAMÓWIENIA  03 DATA:2018-08-09 <par#>04  05 ZAMAWIAJĄCY: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  06 TYTUŁ : @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  07 NAZWA : &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  07 MODYFIKATOR: ################################## <par#>  07 ILOŚĆ : ############ <par#>  07  08  ..............................  PODPIS  \\ lines 07 can be sent to the printer exactly four times each time returning the next content shown in the example | |

#### 4.6.5.9 Receipt

|  |  |
| --- | --- |
| Reference number: | 0A |
| 01  02 POKWITOWANIE  03 DATA: 2018-08-10 <par#>  04  05 NUMER : ######################### <par#>  06 NAZWISKO : @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  11 PŁATNOŚĆ : @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  12 WALUTA : @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  07 KWOTA : ######################### <par#>  21 KONTO : ######################### <par#>  22 SPORZĄDZIŁ: @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  07  08 TOWAR : ######################### <par#>    09        .............................  PODPIS  \\ lines can not be repeated  \\ line 07 sent a second time prints an empty line  \\ line 03 centered | |

#### 4.6.5.10 Settlement of the cashier

|  |  |
| --- | --- |
| Reference number: | 0B |
| 01  02 ROZLICZENIE KASJERA  03 ROZLICZENIE ZMIANY  04 DATA: 16-07-2018 <par#>  05  06 NUMER : ######################### <par#>  07 NAZWISKO : @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  08 POCZĄTEK ZMIANY: ################ <par#>  09 KONIEC ZMIANY : ################ <par#>  10  11 : @@@@@@@@@@@@@@@@@@@@@@@ <par@>  11 ZLICZONO : ####################### <par#>  11 KASA : ####################### <par#>  11 RÓŻNICA : ####################### <par#>  11  13 WPŁATA : @@@@@@@@@@@@@@@@@@@@@@@ <par@>  14 WYPŁATA : @@@@@@@@@@@@@@@@@@@@@@@ <par@>  15 PŁATNOŚĆ : @@@@@@@@@@@@@@@@@@@@@@@ <par@>  16 W TYM : @@@@@@@@@@@@@@@@@@@@@@@ <par@>  17 RAPORT : @@@@@@@@@@@@@@@@@@@@@@@ <par@>  18 ZLICZONO : ####################### <par#>  19 KASA : ####################### <par#>  20 RÓŻNICA : ####################### <par#>  12  ..............................  PODPIS  \\ lines 11 to 20 except 12 can be repeated any number of times, but in a specific order  \\ sending the line 11 several times causes the printing of another new line according to example | |

#### 4.6.5.11 Confirmation of payment for the invoice

|  |  |
| --- | --- |
| Reference number: | 0C |
| 01  04 Potwierdzenie wpłaty  07 Potwierdzenie anulowania wpłaty  08  10 Data: ########## Godz.: @@@@@ <par#>  11 MID: ############### TID: @@@@@@@@ <par#>  12 Do transakcji: ############ <par#>  13 Nr potwierdzenia: ########## <par#>  14 Nr paczki: ########## <par#>  15 Nr transakcji: ########## <par#>  16 Tytułem: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  17 Wystawca faktury: @@@@@@@@@@@@@@@@@@@@@@ <par@>  18 ID wystawcy faktury: ################### <par#>  19 Na konto: ############################## <par#>  20 Nr faktury: ############################ <par#>  21 Nr klienta: ############################ <par#>  22 Termin płatności faktury: ########## <par#>  23 Wartość: ############### <par#>  24 Płatność: ############### <par#>  26 Opłata: ############### <par#>  27 Ogółem do zapłaty: ############### <par#>  28 Kod faktury:  29 ######################################## <par#>  30 ######################################## <par#>  31 ######################################## <par#>  32 Błąd ########## <par#>  33 Sygnatura: &&&&&&&&&&&&&&&&&&&&&&&& <par&>  34  40 \*\*\*\*\*\*\*\*\*\*\*\*\*UNIEWAŻNIENIE\*\*\*\*\*\*\*\*\*\*\*\*  41 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ODMOWA\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  42 \*\*\*\*\*\*\*\*OPERACJA NIEWYKONALNA\*\*\*\*\*\*\*\*\*  43 \*\*\*\*\*\*\*\*\*OPERACJA PRZERWANA\*\*\*\*\*\*\*\*\*\*\*  44  Komunikat systemu:  45 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  46  47 Kod odpowiedzi: ########## <par#>  48  49 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  50  51 Dziękujemy za dokonanie płatności  52 w sieci Polfon  53 w sieci PayNet  60 w sieci @@@@@@@@@@@ <par@>  54 Zapraszamy ponownie  55  // line 49 can be repeated up to 10 times within the form printout; a maximum of 30 different texts can be sent within the fiscal day | |

#### 4.6.5.12 Coupon topping up an account

|  |  |
| --- | --- |
| Reference number: | 0D |
| 01  02 Kupon zasilenia konta  03 Potwierdzenie zasilenia konta  04 Potwierdzenie anulowania kuponu  05 Potwierdzenie anulowania zasilenia konta  0A Zasilenie konta  0B Potwierdzenie doładowania numeru GSM  06 Potwierdzenie numeru telefonu  07 Potwierdzenie aktywacji karty  0F przez SMS  08  ~~ Paragon:######### Wartość:############## <par#>  10 Data: ########## Godz.: ##### <par#>  11 MID: ############### TID: ######## <par#>  12 Do transakcji: ############ <par#>  13 Nr potwierdzenia: ########## <par#>  14 Nr paczki: ########## <par#>  15 Nr transakcji: ########## <par#>  16 Tytułem: ############################### <par#>  17 Nr karty: ############################### <par#>  18 Nr telefonu: ########################### <par#>  20 Kod zasilenia: &&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21 Nr zasilenia: ########################## <par#>  22 Zasilenie konta zrealizowane pomyślnie  23 Błąd ##########  24 Nr seryjny: ############################ <par#>  25 Saldo konta: ############### <par#>  26 Data ważności: ########## <par#>  27 Sygnatura: &&&&&&&&&&&&&&&&&&&&&&&& <par&>  28  29 Instrukcja zasilenia konta:  30 1. Zadzwoń pod numer ################### <par#>  31 2. Zastosuj się do instrukcji  32 3. Wprowadź kod zasilenia  33  70 Aby zasilić konto:  71 Aby zasilić konto @@@@@@@@@@@@@@@@@@@@@@ <par@>    72 Zadzwoń pod numer ################### <par#>  73 W telefonie wpisz @@@@@@@@@@@@@@@@@@@@@@ <par@>  74 Wybierz z klawiatury @@@@@@@@@@@@@@@@@@@ <par@>  75 Zastosuj się do nagranych instrukcji  76 Wprowadź @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  77 Naciśnij przycisk „zadzwoń”  78 Zatwierdź wpisany ciąg znaków  79 Zaczekaj na potwierdzenie zasilenia(SMS)  7A Wyłącz i ponownie włącz telefon  7B  7C Aby sprawdzić stan konta:  7D Wybierz z klawiatury @@@@@@@@@@@@@@@@@@@ <par@>  7E Zatwierdź wpisany ciąg znaków  7F  80 Pomoc:  81 Zadzwoń pod numer @@@@@@@@@@@@@@@@@@@@@@ <par@>  82 Z telefonu @@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  83 Opłata za połączenie @@@@@@@@@@@@@@@@@@@@ <par@>  84 Zadzwoń pod numer ################ <par#>  85 Z telefonu innego operatora  86 Opłata za połączenie @@@@@@@@@@@@@@@@@@@ <par@>  87  88 Prosimy zachować kupon  89  8A OPERACJA:  8B @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  8C @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  8D @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  40 \*\*\*\*\*\*\*\*\*\*\*\* UNIEWAŻNIENIE \*\*\*\*\*\*\*\*\*\*\*  41 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ODMOWA \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  42 \*\*\*\*\*\*\*\*OPERACJA NIEWYKONALNA \*\*\*\*\*\*\*\*  43 \*\*\*\*\*\*\*\* OPERACJA PRZERWANA \*\*\*\*\*\*\*\*\*\*  44  45 Komunikat systemu:  @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  46  47 Kod odpowiedzi: ########## <par#>  48  49 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  50  51 Dziękujemy za zakup kuponu  52 Dziękujemy za zasilenie konta  53 w sieci Polfon  54 w sieci PayNet  60 w sieci ########### <par#>  55 Zapraszamy ponownie  56  - the document is printed only after the receipt with turned off cutter  - line ~~ is automatic, printed once when a line after it is sent  - lines 8B to 8D are printed only when the previous line has also been printed  - line 49 can be repeated up to 10 times within the form printout; a maximum of 30 different texts can be sent within the fiscal day  - line 60 is centered | |

#### 4.6.5.13 Receipt of payment by credit card

|  |  |
| --- | --- |
| Reference number: | 0E |
| 01  02 Sprzedawca:  03  04  05 Data transakcji: ###################### <par#>  06  07 Nr dowodu sprz:############# Kasa:@@@@ <par#>  08 Do paragonu:################ Kasa:@@@@ <par#>  09 TID:########### UID:@@@@@@@@@@@@@@@@@@ <par#>  0A TID:########### MID:@@@@@@@@@@@@@@@@@@ <par#>  10 PosID: ################################ <par#>  11 Kasjer: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  12  13 Karta: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  14 &&&&&&&&&&&&&&&&&&&& Ważna do:######## <par&>, <par#>  15  16 Nr autoryzacji: &&&&&&&&&&&&&&&&&&&&&&& <par&>  17  18 Sprzedaż: ###################################### <par#>  19 Uznanie : ###################################### <par#>  20 Słownie : @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  21 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  23 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  24  25 Proszę obciążyć moje konto.  26 I agree to pay the total amount  27 shown above  28  29 ......................................  30 Podpis okaziciela karty  31 Signature of cardholder  32  - Line 02 automatically prints the current header | |

#### 4.6.5.14 Receipt / Cancellation of payment by fleet card

|  |  |
| --- | --- |
| Reference number: | 0F |
| 01  02 Sprzedawca:  03 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  04 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  05  06  07 Do paragonu: ############# <par#>  08 Kasa: ############# <par#>  09 Transakcja: ############# <par#>  10 Kasjer: ######################### <par#>  11  12  13 Karta: @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  14 Typ karty: ######################### <par#>  15 Numer karty: ######################### <par#>  16 Ważna do: ######################### <par#>  41 Transakcja karty: #################### <par#>  42 Numer autoryzacji: #################### <par#>  43 Identyfikator autoryzacji: ############# <par#>  17 Numer rej.: &&&&&&&&&&&&&&&&&&&&&&&&& <par&>  18 Przebieg KM: ######################### <par#>  50 Kod kierowcy: ######################### <par#>  51 Posiadacz: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  19  20 Sprzedaż: ############################# <par#>  21 Uznanie: ############################# <par#>  22  23 Proszę obciążyć moje konto.  24 I agree to pay the total amount  shown above.  25 Proszę uznać moje konto  26 Please refund the total amount  shown above.  27  28 ......................................  29 Podpis okaziciela karty  30 Signature of cardholder  31  - Line 02 automatically prints the current receipt header | |

#### 4.6.5.15 ‘WZ’ receipt

|  |  |
| --- | --- |
| Reference number: | 10 |
| 01  02 KWIT 'WZ'  03 Nr:#################### <par#>  04  05 Do paragonu Nr/Data: 000001 2018-08-07  06 Kasa Nr: ###### Zmiana Nr: ###### <par#>  07 Transakcja nr: ######################### <par#>  08  09 Wydał:  10 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  11 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  12  13 Pobrał:  14 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  15 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  16 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  17 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  18  19 Lp. Nazwa jm Ilość  ----------------------------------------  20 @@@@@@@@@@@@@@@@@@@@ <par@>  21  22 Karta: @@@@@@@@@@@@@@@@@@@@@@@@ <par@>  23 Typ karty: ######################## <par#>  24 Numer karty: ######################## <par#>  25 Ważna do: ######################## <par#>  26 Numer rej.: @@@@@@@@@@@@@@@@@@@@@@@@ <par@>  27 Przebieg KM: ######################## <par#>  28  29 sto złotych / zero  30  31 ................ ................  imię, nazw., podpis imię, nazw., podpis  osoby wydającej osoby odbierającej  32  - lines 05 and 29 are printed automatically  - line 03 centered  - line 20 can be repeated any number of times | |

4.6.5.16 Shift closing report

|  |  |
| --- | --- |
| Reference number: | 11 |
| 01  02 RAPORT ZAMKNIĘCIA  03 ZMIANA &&&&&& <par&>  04  05 \*\*\*\*\*\* Otwarty ################ \*\*\*\*\*\* <par#>  06  07 Debet Kredyt  08 Sprzedaż: Paliwa ########### <par#>  09 Inne ########### <par#>  10 -----------  11 Łączna sprzedaż ########### <par#>  12 Kwota otwarcia ########### <par#>  13 Zapłacono ########### <par#>  14 Otrz. na konto ########### <par#>  15 Kredyt na konto ########### <par#>  16 Zapł. na konto ########### <par#>  18  19 Metody płatności:  20 Karta kredytowa ##################### <par#>  21 Imprinter ##################### <par#>  22 Pracownik ##################### <par#>  23 Kredyt krótkoterm ##################### <par#>  24 Czek ##################### <par#>  25 Waluta obca ##################### <par#>  70 Kupon ##################### <par#>  71 Wypłata ##################### <par#>  72 Karta bankowa ##################### <par#>  26 Sprzedaż na placu ##################### <par#>  27 Wrzutka ##################### <par#>  28 Ucieczka ##################### <par#>  29 Wypłacono ##################### <par#>  30 Rabat ##################### <par#>  31 Kwota zamknięcia ##################### <par#>  32 ################## @@@@@@@@@@@@@@@@@@@@@ <par#>  33 ---------- -----------  Suma ###################### <par#>  34  35 UZGODNIENIE POS  36  37 Gotówka deklarowana ############ <par#>  38 Gotówka wymagana ############ <par#>  39 ------------  40 Różnica w gotówce ############ <par#>  41  42 INFORMACJE DODATKOWE  43  44 Anulowana sprzedaż art. ################ <par#>  45 Anulowana sprzedaż ################ <par#>  46 Zwrot ################ <par#>  47 Brak sprzedaży ################ <par#>  48 Test pomp ################ <par#>  49 Liczba klientów ################ <par#>  51  52 STATYSTYKI KART  53  54 Karta kredytowa Numer Kwota  55 Statoil PL ################## <par#>  56 Routex PL ################## <par#>  57 Routex Int, ################## <par#>  58 Statoil Scandinavia ################## <par#>  60 ------ -----------  Sprzedaż sumaryczna ################## <par#>  61  62  63 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  64 DATA 2018-08-31 CZAS 13:12  65 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  66  - line 03 is centered and double height and width  - line 05 centered  - line 17 can be repeated up to 10 times  - line 73 can be repeated any number of times  - line 32 can be repeated up to 10 times  - line 50 can be repeated up to 10 times  - lines 63 to 65 are centered  - line 64 should be sent according to example | |

4.6.5.17 Summary

|  |  |
| --- | --- |
| Reference number: | 12 |
| 01 PODSUMOWANIE  02 Paragon na paliwa płynne lub gazowe  ##### ########### <par#>  03 Paragon nr ##### ########### <par#>  04 - - - - - - - - - - - - - - - - - - - -  05 Razem ########### <par#>  20 | |

#### 4.6.5.18 Confirmation of transaction

|  |  |
| --- | --- |
| Reference number: | 13 |
| 01  03 POTWIERDZENIE DOKONANIA TRANSAKCJI    04 Kasa: ################################## <par#>  05 Numer transakcji: ###################### <par#>  06 Numer kasjera: ######################### <par#> | |

#### 4.6.5.19 Operator function report

|  |  |
| --- | --- |
| Reference number: | 14 |
| 01  02 RAPORT FUNKCJI OPERATORA    03 Funkcja #### @@@@@@@@@@@@@@@@@@@@@@@@@@ <par#>, <par@>  04 | |

#### 4.6.5.20 Cashier's report X and Z

|  |  |
| --- | --- |
| Reference number: | 15 |
| 01  02 RAPORT KASJERA X  90 RAPORT KASJERA Y  03 RAPORT KASJERA Z  04 RAPORT KASY X  91 RAPORT KASY Y  05 RAPORT KASY Z  06 OFFLINE KASJERA  07 ONLINE KASJERA  08  LICZBA RESETÓW: ### <par#>  09 NUMER KASY # ### <par#>  10  SUMY ŁĄCZNE  11 SUMA BIEŻĄCA DODATNIA ############### <par#>  12 SUMA BIEŻĄCA UJEMNA ############### <par#>  13 SUMA POPRZEDNIA DODATNIA ############### <par#>  14 SUMA POPRZEDNIA UJEMNA ############### <par#>  15 ---------------  SUMA ŁĄCZNA DODATNIA ############### <par#>  16 SUMA ŁĄCZNA UJEMNA ############### <par#>  17  SUMY SPRZEDAŻY  18 TOWARY:  19 ##### POZYCJE DODATNIE ############### <par#>  20 ##### USŁUGI, INNE ############### <par#>  21 ##### POZYCJE UJEMNE ############### <par#>  22 ##### DODATNIE KOREKTY ############### <par#>  23 ##### UJEMNE KOREKTY ############### <par#>  24  ##### KUPON SKLEPOWY ############### <par#>  25  PODSUMA TOWARÓW ############### <par#>  26  PODSUMA PODATKU ############### <par#>  27  RABAT / DOPŁATA  28  RABAT HEJ HEM ############### <par#>  29 RABAT / DOPŁATA 2 ############### <par#>  30 RABAT / DOPŁATA 3 ############### <par#>  31 RABAT DLA PRACOWNIKA ############### <par#>  32 PODSUMA RABATU/DOPŁATY ############### <par#>  33 ---------------  SPRZEDAŻ NETTO ŁĄCZNIE ############### <par#>  34  SUMY ŚRODKÓW PŁATNOŚCI  35 ŚRODKI PŁATNOŚCI    36 ŚRODEK PŁ.##: ### @@@@@@@@@@@@ &&&&&&& <par#>, <par@>, <par&>  36 ##### TYP ŚRODKA ############### <par#>, <par@>  36 ##### ZEBRANE ##### <par#>  36 ##### W OBIEGU ##### <par#>  36 ##### START W OB. ##### <par#>  36 ##### TYP PŁ. NR 2 &&&&&&&&&&&&&&& <par#>, <par&>  36  37  PODSUMA ŚR. PŁATNOŚCI ############### <par#>  38  KOREKTA ŚRODKÓW PŁATNOŚCI  39  ##### DOD. FUNKCJI BANK. ############### <par#>  40 ##### POMN. FUNKCJI BANK. ############### <par#>  41 ##### USTAW. ZAOKRĄGLEŃ ############### <par#>  42 ##### ZAPAM. CZ. PŁATN. ############### <par#>  43 ##### PRZYW. CZ. PŁATN. ############### <par#>  44 ##### OPŁATA PŁATNOŚCI ############### <par#>  45  45 PODSUMA KOREKTY PŁATN. ############### <par#>  46 ---------------  ŚRODKI PŁATNICZE ŁĄCZNIE ############### <par#>  47  INNE SUMY  48 ##### OBNIŻKI DODATNIE ############### <par#>  49 ##### OBNIŻKI UJEMNE ############### <par#>  50 ##### KOREKCJE BŁĘDÓW ############### <par#>  51 ##### SUMA NADPŁAC. GOT. ############### <par#>  52 ##### ZWROTY KOSZTÓW ############### <par#>  53 ##### ŚRODKI UNIEWAŻN. ############### <par#>  54 ##### POZYCJE SPRZEDAŻY ############### <par#>  55 ##### RABAT ZBIORCZY ############### <par#>  56 ##### SPRZEDAŻ ANULOWANA ############### <par#>  57 ##### SPRZEDAŻ ZAPAMIĘT. ############### <par#>  58 ##### SPRZEDAŻ UNIEWAŻN. ############### <par#>  59 ##### SPRZEDAŻ PRZYWOŁ. ############### <par#>  60 ##### ZAMIANA ŚR. PŁATN. ############### <par#>  61 ##### BEZ PODATKU ############### <par#>  62 ##### KWOTA ZWOLNIONA ############### <par#>  63 ##### ZWROT NADPŁAC. VAT ############### <par#>  64 ##### ZNACZKI WYEMITOW. ############### <par#>  65  ##### POZYCJE Z KLAWIAT. ##### <par#>  66 ##### POZYCJE SKANOWANE ##### <par#>  67 ##### POZYCJE WAŻONE ##### <par#>  68 POZYCJE WAŻONE ŁĄCZNIE ############### <par#>  69 ##### TRANSAKCJE DODATNIE <par#>  70 ##### ZWROT NADPŁACONEJ GOTÓWKI <par#>  71 ##### INNE TRANSAKCJE <par#>  72 ##### OTWARCIE SZUFLADY <par#>  73 ##### SUMA BIEŻĄCA <par#>  74 ##### LICZBA KLIENTÓW <par#>  75  ##:## CZAS PRACY KASJERA <par#>  76 ##:## CZASOWE WYŁĄCZENIE KASY <par#>  77 ##:## CZAS WPROWADZANIA TOWARÓW <par#>  78 ##:## CZAS PŁACENIA <par#>  79 ##:## CZAS OTWARCIA SZUFLADY <par#>  - lines 36 can be repeated any number of times | |

#### 4.6.5.21 Payments report

|  |  |
| --- | --- |
| Reference number: | 16 |
| 01  02 RAPORT ŚRODKÓW PŁATNOŚCI  03 KASJER ######## <par#>  04  ŚRODEK PŁ.##: ### @@@@@@@@@@@@ &&&&&&& <par#>, <par@>, <par&>  05 ##### TYP ŚRODKA @@@@@@@@@@@@@@@ <par#>, <par@>  06 ##### ZEBRANE ##### <par#>  07 ##### W OBIEGU ##### <par#>  08 ##### START W OB. ##### <par#>  09  09 PODSUMA ŚR. PŁATNOŚCI ############### <par#>  // line 03 centered  // no line can be repeated | |

#### 4.6.5.22 Registered sales

|  |  |
| --- | --- |
| Reference number: | 17 |
| 01  02 SPRZEDAŻ ZAREJ. W KASIE    03 NUMER KASY # ### <par#>    04 PODSUMA SPRZEDAŻY ################ <par#>  05 PODSUMA RACH. SPRZEDAŻY ################ <par#>  06 PODSUMA RABATU / DOPŁ. ################ <par#>  07 ----------------  07 SPRZEDAŻ ŁĄCZNIE ################ <par#> | |

4.6.5.23 Return receipt

|  |  |
| --- | --- |
| Reference number: | 18 |
| 01  02 POKWITOWANIE    03 ZWROT: ################################# <par#>  04  ŚRODEK PŁ.: @@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  05 KWOTA: ################################# <par#>  06 KONTO: ################################# <par#>      PODPIS: .............................. | |

#### 4.6.5.24 Discount for an employee

|  |  |
| --- | --- |
| Reference number: | 21 |
| 01  02 RABAT DLA PRACOWNIKA    03 Rabat dla pracownika: ################## <par#>  04 Numer pracownika: ###################### <par#>  05 KWOTA: ################################# <par#>  06    PODPIS: .............................. | |

#### 4.6.5.25 Exchange of payment means

|  |  |
| --- | --- |
| Reference number: | 22 |
| 01  02 WYMIANA ŚRODKÓW PŁATNOŚCI    03 Z: ################################## <par#>  04 NA: ################################## <par#> | |

#### 4.6.5.26 Register cash operation

|  |  |
| --- | --- |
| Reference number: | 23 |
| 01  02 OPERACJE KASOWE    03 OPERACJA ###: &&&&&&&&&&&&&&&&&&&&&&&&& <par&>  04  - line 03 can be repeated any number of times | |

#### 4.6.5.27 Cash register errors

|  |  |
| --- | --- |
| Reference number: | 24 |
| 01  02 BŁĘDY KASY    03 BŁĄD KRYTYCZNY (FATAL ERROR)  04 Serwis : &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  05 Urządzenie : &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  06 Urządzenie dod. : &&&&&&&&&&&&&&&&&&&&&& <par&>  07 Funkcja : &&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  08 Podfunkcja : &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  09 Rejestr & : &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  10 Trans & : &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  11 Kod błędu : &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&> | |

#### 4.6.5.28 Price list - sales statistics

|  |  |
| --- | --- |
| Reference number: | 25 |
| 01  02 CENNIK  03 ZMIANY CEN  04 STATYSTYKA SPRZEDAŻY  05 POTWIERDZENIE DOKONANIA TRANSAKCJI  06  30 OD &&&&&&&&&& DO &&&&&&&&&& <par&>  07 SKLEP &&&&&&&&&&&&&&&&&&&&&&&&& <par&>  08 DATA 18-08-31 13:24:52 <par&>    09 Kod art: &&&&&&&&&&&&& Cena: &&&&&&&&,&& <par&>  0A Kod art: &&&&&&&&&&&&& ILOŚĆ:&&&&&&&&&&& <par&>  10 Kod art: &&&&&&&&&&&&& Data: &&&&&&&&&&& <par&>  11 Cena1: &&&&&&&&,&& Cena2: &&&&&&&&,&& <par&>  12 Ilość: &&&&&&&&&&& <par&>  13  14 NR WYDRUKU: &&&&&&&&&&&&&&&&&&&&& <par&>    // line 08 must be sent in accordance with the pattern  // lines 07 and 09 to 12 can be repeated any number of times | |

#### 4.6.5.29 Counters state

|  |  |
| --- | --- |
| Reference number: | 26 |
| 01  02 STANY LICZNIKÓW  03  04 Pompa ## ##### stan ################lit. <par#>  05 - - - - - - - - - - - - - - - - - -  06 Ogółem liczniki  07 Paliwo ###########################lit. <par#>  08  - lines 04 and 07 can be repeated any number of times | |

#### 4.6.5.30 Currency in safe

|  |  |
| --- | --- |
| Reference number: | 27 |
| 01  02 WALUTA W SEJFIE  03  04 OGÓŁEM GOTÓWKA W SEJFIE : ########## <par#>  05 &&& &&&&&&&&&& W SEJFIE : ########## <par&>, <par#>  06 OGÓŁEM CZEKI W SEJFIE : ########## <par#>  07 OGÓŁEM VOUCZERY W SEJFIE : ########## <par#>  08  09  0A ----------------------------------------  0B OGÓŁEM W SEJFIE : ########## <par#>  0C  0D NUMER SKRYTKI ############### <par#> | |

4.6.5.31 A car wash ticket

|  |  |
| --- | --- |
| Reference number: | 28 |
| 01  02 BILET DO MYJNI  03  04 WAŻNY NA ## PROGRAM NR ## PLN ###### <par#>  05  06 W CELU URUCHOMIENIA MYJNI WPROWADŹ KOD  07  08 KOD PROGRAMU: ############### <par#>  09  0A WYDANY W DNIU 2018-08-31 CZAS 13:57:24 <par#>  0B  0C ZAPRASZAMY DO KORZYSTANIA Z NASZEJ MYJNI  0D  // the register currency in line 04 is automatically read from the printer settings  // line 0A should be sent according to the pattern  // lines 04, 08, 0A are centered | |

#### 4.6.5.32 Tank status report

|  |  |
| --- | --- |
| Reference number: | 29 |
| 01  02 STAN ZBIORNIKÓW RAPORT  03  04 MODUŁ: ### POZYCJA:### SONDA NR #### <par#>  05 OPIS: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  06 PRODUKT: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  07  08 POZIOM OBJĘTOŚĆ  09 (CM) (LTR)  0A POJEMNOŚĆ ########## ############ <par#>  0B PRODUKT : ########## ############ <par#>  0C WODA : ########## ############ <par#>  0D RAZEM : ########## ############ <par#>  0E  0F  10 KOREKTA O TEMPERATURĘ  11 PRODUKT : ####################### <par#>  12 WODA : ####################### <par#>  13 RAZEM : ####################### <par#>  14  15 MAX.POZIOM NAPEŁ: ###################### <par#>  16 MAX.DO NAPEŁNIENIA: #################### <par#>  17  18 ŚREDNIA TEMERATURA PRODUKTU: ########## <par#>  19  - line 04 is centered | |

#### 4.6.5.33 Fuel delivery report

|  |  |
| --- | --- |
| Reference number: | 2A |
| 01  02 RAPORT DOSTAWY PALIW  03  04 ZBIORNIK: ####### <par#>  05 OZNACZENIE: ###### PRODUKT: ############ <par#>  06  07 RAPORT DOSTAWY - STABILNYCH  08 PRZED DOSTAWĄ  09 OBJĘTOŚĆ PRODUKTU: ################### <par#>  0A OBJĘTOŚĆ WODY: ################### <par#>  0B OBJ. DO WYPEŁ.: ################### <par#>  0C TEMPERATURA PRODUKTU: ################ <par#>  0D PO DOSTAWIE  0E OBJĘTOŚĆ PRODUKTU: ################### <par#>  0F OBJĘTOŚĆ WODY: ################### <par#>  10 OBJ. DO WYPEŁ.: ################### <par#>  11 TEMPERATURA PRODUKTU: ################ <par#>  12 DOSTAWA  13 DATA: 2018-08-31 CZAS 13:57:24 <par#>  14 OBJĘTOŚĆ: ################## <par#>  15 TEMPERATURA: ################## <par#>  16 DOSTAWA NETTO(15C): ################## <par#>  17 TEMPERATURA PRODUKTU: ################ <par#>  18 KSIĘGOWA OBJ.DOSTAWY: ################# <par#>  19 ROZBIEŻNOŚĆ: ################## <par#>  1A  \\ line 13 should be sent in accordance with the pattern | |

#### 4.6.5.34 Refueling report

|  |  |
| --- | --- |
| Reference number: | 2B |
| 01  02 RAPORT TANKOWANIA  03  04 Nr Gatunek Obj. zb. Rezerwa Alarm  05 ## ########## ######## ##### ####### <par#>  06  - line 05 can be repeated any number of times | |

#### 4.6.5.35 Loyalty system

|  |  |
| --- | --- |
| Reference number: | 2C |
| 01  02 Kupon  03 Rejestracja transakcji  04 Rejestracja zwrotu  05 Stan konta  06 Wydanie nagrody  07 Zamówienie nagrody  08 Oferta  09 Anulowanie  0A  0B Data: 2018-08-31 Godz.: 13:57:24 <par#>  0C Nr transakcji: ######################### <par#>  0D Kasa: ########## Kasjer: &&&&&&&&&&&&&&& <par#>, <par&>  0E  0F Nr karty: &&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  10 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  11 Typ: &&&&&&&&&&&&&&&&&&&& Ważna do:##### <par&>, <par#>  12 Id klienta: &&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  13 Nr konta: ############################## <par#>  14 Status: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  15  16 Typ nagrody: &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  17 Nagroda: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  18 Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  19 Kwota: ################################ <par#>  1A Rabat: ################################ <par#>  1B Punkty: ################################ <par#>  1C Stan konta: ############################ <par#>  1D  1E Obowiązuje od: ########## do: ########## <par#>  1F  20 Id akcji: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21  22 Kod Towar Rabat  23 Kod Towar Punkty  24 ----------------------------------------  25 ######## @@@@@@@@@@@@@@@@@@@@@@ ######## <par#>, <par@>,<par#>  26  27 Info: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  28 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  29 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  2A  2B \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* ODMOWA \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  2C \*\*\*\*\*\*\*\* OPERACJA NIEWYKONALNA \*\*\*\*\*\*\*\*\*  2D \*\*\*\*\*\*\*\*\*\* OPERACJA PRZERWANA \*\*\*\*\*\*\*\*\*\*  40  2E Kod odpowiedzi: ################################ <par#>  2F Komunikat: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  30 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  31 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  32  33 Dziękujemy za lojalność  34 Dziękujemy i zapraszamy ponownie  35 Proszę zachować wydruk  36  \\ line 0B should be sent according to the pattern  \\ line 10 is printed if the previous line has been printed  \\ lines 17, 18, 20, 25 can be repeated any number of times  \\ lines 28, 29, 30, 31 are printed when the previous line has been printed | |

#### 4.6.5.36 DCC report

|  |  |
| --- | --- |
| Reference number: | 2D |
| 01  F0 Potwierdzenie zapłaty kartą  F1 Potwierdzenie zapłaty rachunku  F2 Potwierdzenie transakcji uznania  F3 Potwierdzenie unieważnienia  F4 Pokwitowanie  02 Sprzedawca:  03  04  05 Data transakcji: ###################### <par#>  06  07 Nr dowodu sprz:############# Kasa:#### <par#>  08 Do paragonu:################ Kasa:#### <par#>  09 TID:########### UID:################## <par#>  11 TID:########### MID:################## <par#>  0A P: ######## S: #################### <par#>  0B PosID: ################################ <par#>  0C Kasjer: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  12 Zapłata rachunku nr: ################## <par#>  13 Dla: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  14 Nr klienta: ########################### <par#>  0D  0E Karta: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0F #################### Ważna do:######## <par#>  1F  20 Nr autoryzacji: &&&&&&&&&&&&&&&&&&&&&&& <par&>  21 Nr autoryzacji: &&&&&&&&&&&&&&& ARC:&& <par&>  17 Kod autoryzacji: &&&&&&&&&&&&&&&&&&&&&& <par&>  18 Liczba punktów za transakcję: ########## <par#>  19 Liczba punktów po transakcji: ########## <par#>  1A Kwota na karcie: ###################### <par#>  22  23 Sprzedaż: ############################# <par#>  24 Gotówka : ############################# <par#>  25 Wypłata : ############################# <par#>  1E Prowizja: ############################# <par#>  26 Razem : ############################# <par#>  27 Uznanie : ############################# <par#>  28 Słownie : @@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  29 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  2A @@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  2B @@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  2C  2D Kod spłaty kredytu: ############################ <par#>  2E Opis: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  2F @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  30 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  31  32 DCC Transaction / Transakcja DCC  33 SALE ########### <par#>  34 REFUND ########### <par#>  35 Sale Amount / Sprzedaż ########### <par#>  36 FX Rate / Kurs ########### <par#>  37 Conversion Rate / Kurs ########### <par#>  38 Commision / Prowizja DCC ########### <par#>  39 Fx Mark-up / Marża kursowa ########### <par#>  3A Reference Rate provided by @@@@@@@@@@@ <par@>  3B Kursy walut z @@@@@@@@@@@@@@@@@@@@@@@@ <par@>  40 DCC obsługuje/DCC provided by @@@@@@@@@@ <par@>  41 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  42 FINAL AMOUNT TRANSACTION CURRENCY  43 TRANSACTION CURRENCY  44 OSTATECZNA KWOTA W WALUCIE KARTY  45 ###################################### <par#>  46  47 KOD PIN ZGODNY  49 Karta bezstykowa, podpis niewymagany  50  51 Transakcja potwierdzona  52 kodem PIN  53 PIN VERIFIED  54  55 Proszę obciążyć moje konto.  4A Proszę uznać moje konto  56 I agree to pay the total amount  57 shown above  58  59 ......................................  5A Podpis okaziciela karty  5B Signature of cardholder  5C  5D  5E ......................................  5F Numer dowodu okaziciela karty  60  61 ORYGINAŁ  62 KOPIA  63  71 AID: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  72 PSN: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  73 ATC: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  74 AAC: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  75 TC: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  76 ARC: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  78 ARQC: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  79 Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  7A Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  7B Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  7C Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  7D Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  7E Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  7F Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  9F Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  77  80 Oświadczenie DCC\DCCdeclaration:  81 Oświadczam, że zaoferowano mi wybór  82 rodzaju transakcji między transakcją w  83 @@@@ a transakcją DCC i poinformowano <par@>  84 mnie przed dokonaniem transakcji DCC o  85 kursie przeliczenia waluty transakcji na  86 walutą karty oraz o wartości  87 transakcji w @@@@ i w walucie karty, co <par@>  88 niniejszym akceptuję. Potwierdzam, że  89 Walutą Karty jest @@@@@@ <par@>  8A walutą karty jest @@@@@@ <par@>  8B Dokonany przeze mnie wybór rodzaju  8C transakcji jest ostateczny.  8D Wiem, że istnieje możliwość przeliczenia  8E @@@@ przez MasterCard i oświadczam, iż <par@>  8F rezygnuję z tej możliwości. Jednocześnie  90 nie będę mieć żadnych roszczeń wobec  91 MasterCard w jakimkolwiek zakresie  92 związanym z realizacją transakcji  93 DCC lub ujawnieniem informacji o  94 zrealizowanej transakcji DCC  A0  A1 I accept that I have been offered  A2 a choice of currencies for payment.  A3 I accept the conversion rate  A4 amount & that the final selected  A5 transaction currency is ###### <par#>  A6 I also accept that my  A7 choice of currency is final.  A8 I accept the conversion rate & final  A9 amount & that the final selected  B0 transaction currency is ###### <par#>  B1 I understand that MasterCard has a  B2 currency conversion process and that I  B3 have chosen not to use the MasterCard  B4 currency conversion process and I will  B5 have no recourse against MasterCard with  B6 respect to any matter related to the  B7 currency conversion or  B8 disclosure thereof.  C0 I accept that I have been offered  C1 a choice of currencies for payment &  C2 that this choice is final. I accept the  C3 conversion rate & final amount & the  C4 selected Transaction Currency.  C5 The guaranteed FX rate is based on  C6 Reuters rate of the previous banking day  C7 including a hedging margin not  C8 exceeding ##### <par#>  D0 I have chosen not to use the MasterCard  D1 currency conversion process and agree  D2 that I will have no recourse against  D3 MasterCard concerning the currency  D4 conversion or its disclosure.  E0  E1 ......................................  E2 Podpis  E3 Signature  E4  - line 02 is automatically completed with the currently set header  - line 41 centered  - line 45 centered with double height  - line 79 can be repeated any number of times, with double width  - line 7A can be repeated any number of times, with double height  - line 7B can be repeated any number of times, with double width and height  - line 7C can be repeated any number of times, with the font of increased thickness  - line 7D can be repeated any number of times, masked on an electronic copy  - line 7E can be repeated any number of times, with a font of increased thickness, masked on an electronic copy  - line 7F can be repeated any number of times, printed in negative  - line 9F can be repeated any number of times  - line 83 centered  - line 87 centered  - lines 89 to 8A are centered  - line 8E centered  - line A5 centered  - line B0 centered  - line C8 centered | |

4.6.5.37 Transfer of cash

|  |  |
| --- | --- |
| Reference number: | 2E |
| 01  02 PRZEKAZANIE GOTÓWKI  03 PRZEKAZANIE PRZELEWÓW  10  21 Kasjer: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  40  41 Kasjer PRZEKAZUJĄCY: @@@@@@@@@@@@@@@@@@@ <par@>  42 Kasjer OTRZYMUJĄCY: @@@@@@@@@@@@@@@@@@@ <par@>  60  61 Kwota: ################################# <par#>  A0  A1 Numer: ################################# <par#>  E0  E1 ......................................  E2 PODPIS  E3  E4 ......................................  E5 PODPIS OSOBY OTRZYMUJĄCEJ  E6  E7 ......................................  E8 PODPIS OSOBY PRZEKAZUJĄCEJ  F0  F1 UWAGI: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  F2 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  F3 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  F4 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  - lines F2 to F4 are printed when the previous line has been printed | |

4.6.5.38 Return receipt

|  |  |
| --- | --- |
| Reference number: | 2F |
| 01  02 POKWITOWANIE ZWROTU  10 DATA: ################ <par#>  11  18 NUMER: ################################# <par#>  19 KASJER: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  20  30 ZWROT TOWARU: @@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  30 ################################# <par#>  30  40 KWOTA: ################################# <par#>  50  51 ŚRODKI PŁATNOŚCI:  52 @@@@@@@@@@@@@@@@@@@@@@@@@@@@ ######### <par@>, <par#>  E0          ......................................  PODPIS  E1          ......................................  PODPIS KASJERA  E2          ......................................  PODPIS KLIENTA  - line 10 centered  - line 30 can be repeated any number of times  - line 52 can be repeated any number of times | |

#### 4.6.5.39 Confirmation of payment

|  |  |
| --- | --- |
| Reference number: | 30 |
| 01  02 PRZELEW  03 ANULOWANIE PRZELEWU  10 DATA: ################ <par#>  11  20 NUMER: ################################# <par#>  21 KASJER: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  22 NR KOPERTY: ############################ <par#>  23 KWOTA: ################################# <par#>  24 KONTO: ################################# <par#>  50  51 UWAGI:@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  52 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  53 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  54 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  - line 10 centered  - lines 52 to 54 are printed when the previous line has been printed | |

4.6.5.40 Cash register support

|  |  |
| --- | --- |
| Reference number: | 31 |
| 01  02 TWORZENIE KASETKI  03 ZEROWANIE KASETKI  04 ODBIÓR BILONU  05 ZASILENIE KASY  10 DATA: ################ <par#>  11  20 NUMER: ################################# <par#>  21 WPŁACAJĄCY: &&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21 PRZEZ KASJERA: &&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21 KASJER: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21 TYTUŁ: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  22 NUMER KODU DOSTĘPU: #################### <par#>  23 KWOTA: ################################# <par#>  50  51 UWAGI:@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  52 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  53 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  54 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  - line 10 centered  - lines 52 to 54 are printed when the previous line has been printed | |

#### 4.6.5.41 Prepayment

|  |  |
| --- | --- |
| Reference number: | 32 |
| 01  02 PRZEDPŁATA DO PARAGONU NR ######### <par#>  03 PRZEDPŁATA DO FAKTURY NR ######### <par#>  11  20 NUMER ZAMÓWIENIA: ###################### <par#>  21 ŚRODEK PŁ.: @@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 KONTO: ################################# <par#>  23 KWOTA: ############################ <par#>  24 PRZEDPŁATA: ############################ <par#>  25 RESZTA: ############################ <par#>  25 SPORZĄDZIŁ: @@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  E0  E1 ......................................  E2 PODPIS  - lines 02 to 03 are centered, font with increased thickness | |

#### 4.6.5.42 Issuing a gift voucher

|  |  |
| --- | --- |
| Reference number: | 33 |
| 01  02 WYDANIE BONU UPOMINKOWEGO  03 KUPON RABATOWY  04 BON UPOMINKOWY  11  12 \*\*\* ZREALIZOWANO \*\*\*  13 \*\*\* WYSTAWIONO \*\*\*  14 \*\*\* WYDANO \*\*\*  19  21 KASJER: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  22 BON UPOMINKOWY: ######################## <par#>  23 BON NR: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  24 WARTOŚĆ BONU: ########################## <par#>  25 ŚRODEK PŁ.: @@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  26 KWOTA: ################################# <par#>  27 KWOTA RABATU: ########################## <par#>  28 WARTOŚĆ RABATU: ######################## <par#>  29 SUMA: ################################## <par#>  30 RESZTA: ################################ <par#>  31 KONTO: ################################# <par#>  51 UWAGI:@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  52 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  53 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  54 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  60 DATA: ########## GODZ.: ######## <par#>  61 SKLEP:################################# <par#>  E0  E1 ......................................  E2 PODPIS  - lines 52 to 54 are printed when the previous line was printed | |

#### 4.6.5.43 Fuel alarm report

|  |  |
| --- | --- |
| Reference number: | 34 |
| 01  02 RAPORT ALARMU PALIWA  11  20 ZBIORNIK NUMER: ######################## <par#>  21 PALIWO: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 RODZAJ ALARMU: @@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  23 DATA:########## CZAS: ######## <par#>  - lines 22 are printed when the previous lines have been printed | |

#### 4.6.5.44 Confirmation of the gift

|  |  |
| --- | --- |
| Reference number: | 35 |
| 01  02 BP partnerclub  03 POTWIERDZENIE PODARUNKU  04 POTWIERDZENIE WYDANIA PODARUNKU  11  21 NAZWA STACJI: @@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 NR TERMINALA: ########################## <par#>  23 ILOŚĆ: ########## PODARUNEK NR: ######## <par#>  24 PUNKTÓW ZA PODARUNEK: ############# <par#>  25 RAZEM PUNKTY ZA PODARUNEK: ############# <par#>  26 NUMER KARTY: ########################### <par#>  27 PUNKTY POCZĄTKOWE: ############# <par#>  28 PUNKTY SKASOWANE: ############# <par#>  29 NOWYCH PUNKTÓW RAZEM: ############# <par#>  30 NAZWA: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  40  41 Dziękujemy i zapraszamy ponownie.  42 Dziękujemy. Do zobaczenia.  50  51 KOD SPRZEDAWCY: ######################## <par#>  52 KASJER NR: ######################## <par#>  53 DATA:########## CZAS: ######## <par#> | |

#### 4.6.5.45 Confirmation of BP Partnerclub change

|  |  |
| --- | --- |
| Reference number: | 36 |
| 01  02 BP partnerclub  04 RAPORT ZMIANY  11  21 NAZWA STACJI: @@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 NR TERMINALA: ########################## <par#>  23 NR KOLEJNY: ####################### <par#>  24 KOD TERMINALA: ####################### <par#>  25 OPERATOR: ####################### <par#>  26 CZAS ROZPOCZECIA: ######## <par#>  27 DATA ROZPOCZECIA: ########## <par#>  28 CZAS ZAKOŃCZENIA: ######## <par#>  29 DATA ZAKOŃCZENIA: ########## <par#>  30 Tariff PKT man. TR. man.  31 TAR ##: ############################### <par#>  40 % WYDANIA: ####################### <par#>  41 LITRY SPRZEDANE: ####################### <par#>  42 LITRY WYDANE: ####################### <par#>  43 DAR: ####################### <par#>  44 PUNKTY WYMIENIONE: ##################### <par#>  45 PUNKTY WCZYTANE: ##################### <par#>  46 TRANS. WYDANO: ##################### <par#>  - line 31 can be repeated any number of times | |

#### 4.6.5.46 Discount coupon

|  |  |
| --- | --- |
| Reference number: | 37 |
| 01  02 BON RABATOWY  03 LISTA TOWARÓW  11  21 SKLEP: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 KASA:##### KASJER: @@@@@@@@@@@@@@@@@@@@ <par#>, <par@>  23 PREMIOWANE TOWARY KWOTA PREMII  24 TOWAR:@@@@@@@@@@@@@@@@@@@@ ############ <par@>, <par#>  25 RAZEM: ############ <par#>  26 PREMIA: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  27 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  28 WAZNY: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  - line 24 can be printed when the previous line has been printed  - line 27 can be printed when the previous line has been printed | |

#### 4.6.5.47 The condition of the funds in the box

|  |  |
| --- | --- |
| Reference number: | 38 |
| 00  01  02 STAN ŚRODKÓW W KASETCE  10  11 SZUFLADA: ############################## <par#>  12 KASJER: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  13 ŚRODEK PŁATNICZY: @@@@@@@@@@@@@@@@@@@@@@ <par@>  14 KWOTA: ################################# <par#>  15 STAN: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  16 DATA OST.KONTROLI: ##################### <par#>  20 50 RAZEM: ################################# <par#> | |

#### 4.6.5.48 Settlement of the box

|  |  |
| --- | --- |
| Reference number: | 39 |
| 01  02 ROZLICZENIE KASETKI  10  11 KASJER: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>)  20  21 POCZĄTKOWY STAN KASY:  22 KOŃCOWY STAN KASY:  23 PRZELEWY:  24 CESJE:  31 ŚRODEK PŁATNICZY: @@@@@@@@@@@@@@@@@@@@@@ <par@>  32 KWOTA: ################################# <par#>  40  41 SZCZEGÓŁY OPERACJI:  51 DATA: ################################## <par#>  53 OPERACJA: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  53 NUMER: ################################# <par#>  54 KWOTA: ################################# <par#>  55 OPIS: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  60  61 ŚRODEK PŁATNICZY: @@@@@@@@@@@@@@@@@@@@@@ <par@>  62 KWOTA: ################################# <par#>  63 BŁĄD KASOWY: ########################### <par#>  70  71 PARAGON W OCZEKIWANIU: ################# <par#>  80  81 UWAGI: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  82 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  83 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  84 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  - lines 82 to 84 can be printed when the previous line has been printed | |

#### 4.6.5.49 Guard visit

|  |  |
| --- | --- |
| Reference number: | 3A |
| 01  02 WIZYTA KONWOJENTÓW  10  21 KASJER: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  22 DATA PRZYJAZDU: ######################## <par#>  23 NUMER: ################################# <par#>  30  31 ŚRODEK PŁATNICZY: @@@@@@@@@@@@@@@@@@@@@@ <par@>  32 KWOTA: ################################# <par#>  40  41 RAZEM PRZEKAZANO: ###################### <par#>  80  81 UWAGI: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  82 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  83 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  84 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  E0  E1 ......................................  E2 PODPIS  E3  E4 ......................................  E5 PODPIS OSOBY OTRZYMUJĄCEJ  E6  E7 ......................................  E8 PODPIS OSOBY PRZEKAZUJĄCEJ  - lines 82 to 84 are printed when the previous lines have been printed | |

#### 4.6.5.50 Inspection of cash register status

|  |  |
| --- | --- |
| Reference number: | 3B |
| 01  02 KONTROLA STANU KASY  10  11 ODPOWIEDZIALNY ZA KONTROLE:  12 ##### @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par#>, <par@>  21 OSOBA DODATKOWA:  22 ##### @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par#>, <par@>  30  31 KASJER: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  32 STAN KASY SKONTROLOWANY: ############### <par#>  40  41 ŚRODEK PŁATNICZY: @@@@@@@@@@@@@@@@@@@@@@ <par@>  42 KWOTA STANU KASY: ###################### <par#>  51 UWAGI: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  52 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  53 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  54 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  E3  E4 ......................................  E5 PODPIS OSOBY KONTROLUJĄCEJ  E6  E7 ......................................  E8 PODPIS KASJERA DODATKOWEGO  - lines 12 and 22 are printed when the previous line has been printed  - lines 52 to 54 are printed when the previous lines have been printed | |

#### 4.6.5.51 Account settlement

|  |  |
| --- | --- |
| Reference number: | 3C |
| 01  02 ROZLICZENIE KONTA  03 SALDO KARTY UPOMINKOWEJ  04 KARTA UPOMINKOWA  05 WYMIANA ŚRODKÓW PŁATNOŚCI  06 POTWIERDZENIE PLATNOSCI KARTĄ  10  11 ROZLICZENIE KONTA: &&&&&&&&&&&&&&&&&&&&& <par&>  12 STAN KONTA PRZED TRANS: &&&&&&&&&&&&&&&& <par&>  13 PRZYZNANA PREMIA: &&&&&&&&&&&&&&&& <par&>  14 WYKORZYSTANE: &&&&&&&&&&&&&&&& <par&>  15 STAN KONTA PO TRANS: &&&&&&&&&&&&&&&& <par&>  21 ARTYKUŁ NR: ########### ################ <par#>  22 NAZWA KARTY: @@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  23 NR KARTY: ######################## <par#>  24 DATA WAŻNOŚCI:: ######################## <par#>  25 NR AUTORYZACJI: ######################## <par#>  26 SALDO KARTY: &&&&&&&&&&&&&&&& <par&>  31 EGRC-POBRANO &&&&&&&&&&&&& <par&>  32 KARTA EGRC @@@@@@@@@@@@@@@ ############# <par@>, <par#>  33 ŚRODEK PŁ. WYDANO @@@@@@@@ ############# <par@>, <par#> | |

#### 4.6.5.52 Shift Report

|  |  |
| --- | --- |
| Reference number: | 3D |
| 01  02 RAPORT ZMIANOWY  10  11 ZMIANA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  12 KASJER: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  13 PRZYCHODY: ##################### <par#>  14 SPRZEDAŻ GOTÓWKOWA: ##################### <par#>  15 KARTA @@@@@@@@@@@@@@@:################## <par@>, <par#>  16 CZEK @@@@@@@@@@@@@@@:################## <par@>, <par#>  17 BON @@@@@@@@@@@@@@@:################## <par@>, <par#>  21 WPŁATY DO KASY: ##################### <par#>  22 WYDANIA OPAKOWAŃ: ##################### <par#>  23 ROZCHODY: ##################### <par#>  24 WYPŁATY Z KASY: ##################### <par#>  25 ZWROTY OPAKOWAŃ: ##################### <par#>  30 ROZLICZENIE  31 GOTÓWKA: ##################### <par#>  32 KARTA @@@@@@@@@@@@@@@:################## <par@>, <par#>  33 CZEK @@@@@@@@@@@@@@@:################## <par@>, <par#>  34 BON @@@@@@@@@@@@@@@:################## <par@>, <par#>  35 OPAKOWANIA: ##################### <par#>  40 RAZEM  41 STAN KASY: ##################### <par#>  42 ILOŚĆ PARAGONÓW: ################ <par#>  43 ILOŚĆ PAR. ANULOWANYCH: ################ <par#>  44 ILOŚĆ FAKTUR: ################ <par#>  45 ILOŚĆ STORN. POZYCJI: ################ <par#>  50  51 POCZĄTEK ZMIANY: &&&&&&&&&&&&&&&&&&&&&&& <par&>  52 KONIEC ZMIANY: &&&&&&&&&&&&&&&&&&&&&&& <par&>  60  61 UWAGI: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  62 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  63 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  64 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  - lines 62 to 64 are printed when the previous lines have been printed | |

#### 4.6.5.53 RODZIYNKA - bonus coupon

|  |  |
| --- | --- |
| Reference number: | 3E |
| 01  02 RODZIYNKA  03 KUPON PREMIOWY  10 OFERTA WAŻNA OD ########## DO ########## <par#>  11 Z KARTĄ NR ###################### <par#>  20 KUPON @@@@@@@@@@@@@@ <par@>  30 grupa produktów:  31 @@@@@@@@@@@@@@@@@@@@ <par@>  32 @@@@@@@@@@@@@@@@@@@@ <par@>  38 produkt:  39 @@@@@@@@@@@@@@@@@@@@ <par@>  3A @@@@@@@@@@@@@@@@@@@@ <par@>  40 ############ punktów <par#>  41 ############ rabatu <par#>  50 warunek:  51 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  52 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  53 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  54 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  60 przy zakupie:  61 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  62 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  63 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  64 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  80 Kupon służy do jednorazowego okazania przy kasie  wraz z kartą. Można ze sobą łączyć jedynie  kupony dot. @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@> @@@@@@@@@@@@@@@@@@@@@@@@@@@. Niemożliwe jest  powtórne wykorzystanie kuponu o identycznym  kodzie. Kupon można zrealizować w  @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@> @@@@@@@@@@@@@@@.  81 Kupon służy do jednorazowego okazania przy kasie  wraz z kartą. Niemożliwe jest powtórne  wykorzystanie kuponu o identycznym kodzie.  82 Kupon służy do jednorazowego okazania przy kasie  Niemożliwe jest powtórne wykorzystanie kuponu o  identycznym kodzie.  90  - lines 10 and 11 centered  - line 10 has bolded text  - line 20 centered  - line 20, 31, 32, 39, 3A with double width and thickness  - lines 31 and 32 are printed when the previous line has been printed  - lines 39 and 3A are printed when the previous line has been printed  - lines 40 and 41 centered  - lines 51 to 54 are printed when the previous lines have been printed  - lines 61 to 64 are printed when the previous lines have been printed  - line 80 is multiline, with a lower-height font | |

#### 4.6.5.54 RODZIYNKA - information coupon

|  |  |
| --- | --- |
| Reference number: | 3F |
| 01  02 RODZIYNKA  03 KUPON INFORMACYJNY  10 OFERTA WAŻNA OD ########## DO ######### <par#>  11 Z KARTĄ NR ###################### <par#>  15 KUPON: @@@@@@@@@@@@@@ <par@>  16 @@@@@@@@@@@@@@@@@@@@ <par@>  17 @@@@@@@@@@@@@@@@@@@@ <par@>  1a UWAGA:@@@@@@@@@@@@@@ <par@>  1b @@@@@@@@@@@@@@@@@@@@ <par@>  1c @@@@@@@@@@@@@@@@@@@@ <par@>  20 Dostawca:@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  21 Grupa produktów:@@@@@@@@@@@@@@@@@@@@@@@ <par@>  22 Produkt:@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  23 Gramatura:############################# <par#>  24 Ilość sztuk do rabatu:################# <par#>  25 Wysokość rabatu:&&&&&&&&&&&&&&&&&&&&&&& <par&>  25 Cena po rabacie:####################### <par#>  30 Szanowni klienci,  31 Informujemy, że &&&&&&&&&&&&&&&&&&&&&&&& <par&>  32 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  33 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  3A Zapraszamy na zakupy!  3B @@@@@@@@@@@@@@@@@@@@@ <par@>  40 korzyści:  41 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  42 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  43 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  50 warunek:  51 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  52 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  53 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  60 mechanizm:  61 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  62 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  63 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  64 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  70 grupa produktów:  71 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  72 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  73 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  80 produkty:  81 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  82 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  83 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  90 dodatkowe informacje:  A1 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  A2 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  A3 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  A4 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  B0 Kupon służy do jednorazowego okazania przy kasie wraz z kartą. Można ze sobą łączyć jedynie  kupony dot. @@@@@@@@@@@@@@@.@@@@@@@@@@@@@@@@@@@@ <par@> @@@@@@@@@@@@@@@@@@@@@@@@@@@ Niemożliwe jest  powtórne wykorzystanie kuponu o identycznym  kodzie. Kupon można zrealizować w  @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@> @@@@@@@@@@@@@@@.  B1  C0 <kod kreskowy>  - lines 10 and 11 centered  - lines 10, 25, 30 typed in bold  - line 15 centered  - Line 15-1C with double height and width  - lines 16 and 17 are printed when the previous lines have been printed  - Line 1a centered, with double height and width  - lines 1b and 1c are printed when the previous lines have been printed  - lines 31 to 33 are printed when the previous lines have been printed  - lines 41 to 43 are printed when the previous lines have been printed  - lines 51 to 53 are printed when the previous lines have been printed  - lines 61 to 64 are printed when the previous lines have been printed  - lines 71 to 73 are printed when the previous lines have been printed  - lines 81 to 83 are printed when the previous lines have been printed  - lines A1 to A4 are printed when the previous lines have been printed  - B0 multiline line with lower height font | |

#### 4.6.5.55 RODZIYNKA - lottery coupon

|  |  |
| --- | --- |
| Reference number: | 40 |
| 01  02 KUPON LOTERYJNY  03 KUPON ############### <par#>  04 ##################### <par#>  10 Nr ################ <par#>  30 mechanizm loterii:  31 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  32 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  33 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  40 Nazwa:&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  41 Total produkt:&&&&&&& Total kupon:&&&&&&& <par&>  42 Total produkt:&&&&&&& Naklejka: &&&&&&&&& <par&>  50 dodatkowe informacje:  51 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  52 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  53 @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  90  - line 03 centered  - line 04 centered, printed when the previous line was printed  - line 10 centered  - lines 31 to 33 are printed when the previous lines have been printed  - line 40 can be repeated any number of times  - lines 51 to 53 are printed when the previous lines have been printed | |

#### 4.6.5.56 Order

|  |  |
| --- | --- |
| Reference number: | 41 |
| 01  21 ZAMÓWIENIE  02 Kelner: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  03 Stolik: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  04 Towar: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  10 Opis: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  11 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  20 Ilość: ################################ <par#>  - line 11 is printed when the previous line has been printed | |

#### 4.6.5.57 Confirmation / Report / Bonus

|  |  |
| --- | --- |
| Reference number: | 42 |
| 01  55 POTWIERDZENIE  02 RAPORT  03 BON  04 Blok &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  05 Bon &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  06 cd. &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  07 Centrala &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  08 Część &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  09 Data &&&&&&&&&&&&&&&& Godzina &&&&&&&&&& <par&>  0A Dla &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0B Dopłata &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0C Forma &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0D Gotówka &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0E ID: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0F Ilość &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  10 Imię &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  11 Kasjer &&&&&&&&&&&&&& Kasa &&&&&&&&&&&&& <par&>  12 Klient &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  13 Kod &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  14 Konto &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  15 Kupon nr &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  16 Kurs &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  17 Kwota &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  18 Liczba &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  19 Lp. &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1A Na &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1B Narzut &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1C Nazwa &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1D Nazwisko &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1E Nr dowodu tożsamości &&&&&&&&&&&&&&&&&&& <par&>  1F Numer &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  20 Oddział &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21 Odsetki &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  22 Opakowanie &&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  23 Operator &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  24 Opis &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  25 Opłata &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  26 Placówka &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  27 Płatność &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  28 Podpis &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  29 Pokwitowanie &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2A Potwierdzenie &&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2B Premia &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2C Promocja &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2D Prowizja &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2F Przychody &&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  30 Rabat &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  31 Rachunek nr &&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  32 Raport &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  33 Razem &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  34 Rozchody &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  35 Saldo &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  36 Sprawdził &&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  37 Sprzedaż &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  38 Stan &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  39 Środek płat. &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  3A Talon nr &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  3B Tel. &&&&&&&&&&&&&& Fax. &&&&&&&&&&&&&&& <par&>  3C Typ &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  3D Tytuł &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  3E Tytułem &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  3F Uwagi &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  40 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  41 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  42 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  43 Uzasadnienie &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  44 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  45 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  46 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  47 Uznanie &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  48 Wpłata &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  49 Wydruk &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  4A Wypłata &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  4B Z &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  4C Zatwierdził &&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  4D Zmiana &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  4E Transakcja anulowana  4F Proszę obciążyć moje konto  50 Proszę uznać moje konto  51 Oryginał  52 Kopia  53 .............................  54 Podpis  - lines 40 to 42 are printed when the previous lines have been printed  - lines 44 to 46 are printed when the previous lines have been printed | |

#### 4.6.5.58 Cash operations

|  |  |
| --- | --- |
| Reference number: | 43 |
| 01  02 OPERACJE KASOWE  10 WYPŁATA Z KASY: ##################### <par#>  11 WPŁATA DO KASY: ##################### <par#>  30 KASJER: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  31 STAN KASY: ############################# <par#> | |

#### 4.6.5.59 List of cashiers

|  |  |
| --- | --- |
| Reference number: | 44 |
| 01  02 LISTA KASJERÓW  03  30 KASJER: && &&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  31 OD ########## ##### DO ########## ##### <par#>  50  60 NR WYDRUKU: ##################### <par#>  // lines 30 and 31 can be repeated | |

#### 4.6.5.60 Hourly report

|  |  |
| --- | --- |
| Reference number: | 45 |
| 01  02 RAPORT GODZINOWY  03  30 OD ##### DO ##### KLIENTÓW ########## <par#>  32 POZ. ########## OBROTY ########## <par#>  50  60 NR WYDRUKU: ##################### <par#>  // lines 30 and 32 can be repeated | |

#### 4.6.5.61 Shift Report

|  |  |
| --- | --- |
| Reference number: | 46 |
| 01  02 RAPORT FINANSOWY  03 RAPORT ZMIANOWY  04 RAPORT KASJERA  10 Kasjer ## <par#>  11 Numer ###### <par#>  12 UTARG DZIENNY  13 PRZYCHODY RAZEM ##### ########## <par#>  14 ANULACJA PARAGONU ##### ########## <par#>  15 ------- ----------  16 SUMA ##### ########## <par#>  17 KAUCJA ##### ########## <par#>  18 ZAWROTY ##### ########## <par#>  19 STORNO POZYCJI ##### ########## <par#>  20 ------- ----------  21 SUMA ##### ########## <par#>  30 ŚRODKI PŁATNOŚCI  31 GOTÓWKA  32 POWINNO BYĆ ########## <par#>  33 JEST ########## <par#>  34 RÓŻNICA ########## <par#>  35 BONY  36 POWINNO BYĆ ########## <par#>  37 JEST ########## <par#>  38 RÓŻNICA ########## <par#>  40 STATYSTYKI  41 OBROTY ########## <par#>  42 LICZBA KLIENTÓW ###### <par#>  43 ŚREDNIA SPRZEDAŻ ########## <par#>  44 ILOŚĆ POZYCJI ###### <par#>  45 POZ./KLIENTA ###### <par#>  46 POZ./MINUTĘ ###### <par#>  50 ARTYKUŁY  51 RAZEM POZYCJI ###### <par#>  52 WPROWADZANIE SKANER ###### <par#>  53 WPROWADZANIE RĘCZNE ###### <par#>  60 CZASY  61 WPROWADZANIE TOWARÓW ###### <par#>  62 PŁACENIE ###### <par#>  63 OCZEKIWANIE ###### <par#>  64 -------------  65 RAZEM ###### <par#>  70 Nr wydruku ############# <par#> | |

#### 4.6.5.62 Cash register status report

|  |  |
| --- | --- |
| Reference number: | 47 |
| 01  02 STAN KASY  03 POBRANIE Z KASY  04 ROZLICZENIE KASJERA  10 KASJER: && &&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  11 NUMER ############### <par#>  21 GOTÓWKA ### x ############ <par#>  22 BONY ### x ############ <par#>  23 CZEKI ### x ############ <par#>  30 r---------------- RÓŻNICE ---------------  31 r-------------- WYKAZ RÓŻNIC ------------  41 GOTÓWKA ############ <par#>  42 BONY ############ <par#>  43 CZEKI ############ <par#>  44 SUMA RÓŻNIC ############ <par#>  70 Nr wydruku ############# <par#> | |

#### 4.6.5.63 Open / close operations of the cash register

|  |  |
| --- | --- |
| Reference number: | 48 |
| 01  10 OTWARCIE KASY  11 ZAMKNIĘCIE KASY  12 PRZERWA  13 KONIEC PRZERWY  14 PRZELEW  15 SPRAWDZENIE KASY  16 STAN KASY  17 WPŁATA DO KASY  33 ================================================  34 Nr kasy #### Nr kasjera ###### <par#>  35 Data ######## godz. ######## <par#>  36 ================================================  37 Początkowa zawartość kasy ############ <par#>  38 Gotówka ###X####### ########### <par#>  39 Karta @@@@@@@@@@ ###X####### ########### <par@>, <par#>  3A Bon @@@@@@@@@@ ###X####### ########### <par@>, <par#>  3B Kupon @@@@@@@@@@ ###X####### ########### <par@>, <par#>  3C Czek @@@@@@@@@@ ###X####### ########### <par@>, <par#>  3D Kred. @@@@@@@@@@ ###X####### ########### <par@>, <par#>  3E Inne @@@@@@@@@@ ###X####### ########### <par@>, <par#>  3F Przel. @@@@@@@@@@ ###X####### ########### <par@>, <par#>  40 Razem zadeklarowane ########### <par#>  41 Razem różnice ########### <par#>  42 Wartość dodana do kasy ########### <par#>  43 Razem skasowane ########### <par#>  44 Razem przelane ########### <par#>  45 Razem ########### <par#>  46 Komentarz @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ <par@>  - lines 34 and 35 are centered | |

#### 4.6.5.64 Lotto format

|  |  |
| --- | --- |
| Reference number: | 49 |
| 01 02      PRZEWIDYWANA PULA I STOPNIA        03     NA @@@@@@@@ LOSOWANIE        <par@> 04 LOTTO: #########                      <par#> 05                                         06     LOTTO      07     JOKER      08 MULTI MULTI &&&&&&&& <par&> 09      MINI LOTTO      0A      LOS MILIONOS      0B      KENO      0C      GRAJ W LOTTO      0D &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 0E &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 0F &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 10 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 11                                          12                CHYBIŁ TRAFIŁ             13   NAZWA ZAKŁADU: @@@@@@@@@@@@@@@@@@@@@  <par@> 14           STAWKA: ########## @@@        <par#>, <par@> 15   ILOŚĆ ZAKŁADÓW: ####################  <par#> 16 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 17           ########## - ########          <par#> 18              SYSTEM &&&&&&&&&           <par&> 19   @@@@@@@@@@@@@@@@@ ##################  <par@>, <par#> 1A ---------------------------------------- 1B                NUMER KUPONU              1C &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&> 1D ---------------------------------------- 1E KOMUNIKAT:                               1F &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 20 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 21 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&> 22 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 23 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 24 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 25                                          26 OPŁATA: ########## @@@ <par#>, <par@> 27                                         28   DATA LOSOWANIA: ##########            <par#> 29   DATY LOSOWAŃ: ########## - ########## <par#> 2A   LICZBA LOSOWAŃ: #####                 <par#> 2B   DATY LOSOWAŃ: #### ##########         <par#> 2C                   #### ##########       <par#> 2D KOL. &&&&&&&&&&&&&| TERM. &&&&&&&&&&& <par&> 2E &&&&&&&&|       SN. &&&&&&&&&&&&&&&&&&&& <par&> 2F NR:&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&> 30 #################### <par#> 31 #################### <par#> 32 #################### <par#> 33 #################### <par#> 34 #################### <par#> 35 #################### <par#> 36 BARCODE                                      37                     ZACHOWAJ KUPON                       38                W CELU ODBIORU WYGRANEJ                   39 KOMUNIKAT:                               3A &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&.&&&&&&&&&&&&&&&&&& <par&> 3B &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 3C &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 3D &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 3E &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 3F &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 40            LOTERIA TWÓJ KOD              41                 &&&&&&&&&&&&&&  <par&>        42      TWÓJ KOD WEŹMIE UDZIAŁ W DWÓCH      43               LOSOWANIACH:               44 KOMUNIKAT:                               45 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 46 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&> 47 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 48 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 49 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 4A &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 4B               CZAS TRWANIA LOTERII:                    4C              &&&&&&&&&& - &&&&&&&&&&    <par&> 4D                                          4E        REGULAMIN DOSTĘPNY NA            4F   www.&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 50         W LOTERII BIORĄ UDZIAŁ:         51 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 52 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 53 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 54 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 55 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 56 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 57 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&> 58 Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&> 59 Dane: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&> 5A  5B &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&  <par&> 5C &&&&&&&&&&&&&&&&&&&&&&&&   <par&>  - lines 03 and 04 centered  - line 08 centered  - Line 0D centered  - lines from 0E to 10 are centered, printed when the previous lines have been printed  - line 14 centered  - lines 17 to 19 are centered  - Line 1C centered, can be repeated any number of times  - Line 1F centered  - lines 20 through 24 centered, printed when previous lines have been printed  - line 26, centered, automatic printing of the three-letter currency designation  - lines 28 to 2B are centered  - Line 2C centered, printed when the previous line has been printed  - Line 2F centered, printed when the previous line has been printed  - lines 31 to 35 are printed when the previous lines have been printed  - lines 37, 38, 41, 4B, 4C are printed in negative  - line 3A centered  - lines 3B to 3F centered, printed when previous lines have been printed  - line 41 printed when the previous lines were printed  - lines 46 to 4A are printed when the previous lines have been printed  - line 4C centered  - Line 4F centered, with a reduced height font  - lines 51 to 56 are centered, with a reduced height font  - lines 58 and 59 can be repeated any number of times  - 5C with double width and thickness | |

#### 4.6.5.65 Dosage of medicines

|  |  |
| --- | --- |
| Reference number: | 4A |
| 01  02 DAWKOWANIE LEKÓW  03  04 DATA WIZYTY: &&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  05  06 LEK: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  07 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  08  09 PRZYJMOWANIE: &&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0A &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0B ZALECENIA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0C &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0D  0E UWAGI: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0F &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  10 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  11 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  - line 06 can be repeated up to 10 times  - line 07 printed when the previous line has been printed  - line 09 can be repeated up to 10 times  - line 0A printed when the previous line has been printed  - line 0B can be repeated up to 10 times  - line 0C printed when the previous line has been printed  - lines from 0F to 11 are printed when the previous line has been printed | |

#### 4.6.5.66 Plan of treatments

|  |  |
| --- | --- |
| Reference number: | 4B |
| 01  02 PLAN ZABIEGÓW  03  04 DATA I GODZINA WIZYTY: &&&&&&&&&&&&&&&& <par&>  05  06 GABINET: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  07 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  08  09 RODZAJ ZABIEGU: &&&&&&&&&&&&&&&&&&&&&&&& <par&>  0A &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0B  0C LOKALIZACJA: &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0D &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  - lines 09 to 0D can be printed up to 10 times | |

#### 4.6.5.67 Referral to periodic examinations

|  |  |
| --- | --- |
| Reference number: | 4C |
| 01  02 SKIEROWANIE NA OKRESOWE  03 SKIEROWANIE NA WSTĘPNE  04 SKIEROWANIE NA KONTROLNE  05 BADANIA LEKARSKIE  06  07 DATA I GODZINA WIZYTY: &&&&&&&&&&&&&&&& <par&>  08  09 GABINET: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0A &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0B  0C LOKALIZACJA: &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0D &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  - lines from 07 to 0D can be printed up to 10 times | |

#### 4.6.5.68 Referral to the laboratory

|  |  |
| --- | --- |
| Reference number: | 4D |
| 01  02 DANE JEDNOSTKI KIERUJĄCEJ:  03 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  04 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  05 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  06 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  07  08 SKIEROWANIE DO LABORATORIUM  09  0A RODZAJ: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0B  0C Proszą o wykonanie wymienionych  0D niżej badań u Pana(i):  0E  0F Imię i nazwisko:  10 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  11 Adres: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  12 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  13 PESEL: &&&&&&&&&&& <par&>  14  15 BADANIE: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  16 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  17  18 DATA WYSTAWIENIA: &&&&&&&&&&&&&&&&&&&&& <par&>  19 MIEJSCOWOŚĆ: &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1A          1B .......................................  1C PODPIS I PIECZĄTKA OSOBY KIERUJĄCEJ  1D  1E  - lines 03 to 06 are printed when the previous lines have been printed  - line 12 is printed when the previous lines have already been printed  - line 16 can be repeated up to 10 times | |

#### 4.6.5.69 Referral to a specialist clinic

|  |  |
| --- | --- |
| Reference number: | 4E |
| 01  02 DANE JEDNOSTKI KIERUJĄCEJ:  03 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  04 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  05 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  06 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  07  08 DATA WYSTAWIENIA: &&&&&&&&&&&&&&&&&&&&& <par&>  09 MIEJSCOWOŚĆ: &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0A  0B SKIEROWANIE DO PORADNI DIAGNOSTYCZNEJ  0C SKIEROWANIE DO PORADNI SPECJALISTYCZNEJ  0D  0E RODZAJ: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0F  10 PROSZĘ O BADANIE: &&&&&&&&&&&&&&&&&&&&&& <par&>  11 PROSZĘ O: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  12 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  13  14 U PANA(I):  15  16 IMIĘ I NAZWISKO:  17 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  18 ADRES: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  19 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1A PESEL: &&&&&&&&&&& <par&>  1B  1C ROZPOZNANIE: &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1D &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1E &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1F &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  20 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  22 ICD-10: &&&&&&& <par&>  23 CEL PORADY/UZASADNIENIE:  24 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  25 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  26 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  27 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  28 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  29 BADANIA DOTYCHCZAS WYKONANE:  2A &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2B &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2C &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2D &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2E &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2F          .......................................  PODPIS I PIECZŇTKA OSOBY KIERUJĄCEJ  30  31 UWAGI PORADNI DIAGNOSTYCZNEJ:  32 UWAGI PORADNI SPECJALISTYCZNEJ:  33 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  34 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  35 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  36 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  37 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  38  39 DATA ZGŁOSZENIA SIĘ PACJENTA  3A ZE SKIEROWANIEM: &&&&&&&&&& <par&>  3B TERMIN WYZNACZONEJ PORADY: &&&&&&&&&&&& <par&>  3C  - line 03 to 06 printed when the previous lines were printed  - line 12 printed when the previous line was printed  - line 19 printed when the previous line was printed  - lines from 1D to 21 are printed when the previous lines have been printed  - lines from 24 to 28 are printed when the previous lines have been printed  - lines 2A to 2E are printed when the previous lines have been printed  - line 33 printed when the previous line was printed  - lines 34 to 37 are printed when the previous lines have been printed | |

#### 4.6.5.70 Referral to the hospital

|  |  |
| --- | --- |
| Reference number: | 4F |
| 01  02 DATA WYSTAWIENIA: &&&&&&&&&& <par&>  03 MIEJSCOWOŚĆ: &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  04 SKIEROWANIE DO SZPITALA  05 Imię i nazwisko:  06 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  07 Adres: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  08 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  09 TELEFON:&&&&&&&&&&&&&&& <par&>  0A PESEL: &&&&&&&&&&& <par&>  0B WIEK: &&& <par&>  0C  0D DO SZPITALA: &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0E &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0F &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  10 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  11 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  12 ODDZIAŁ: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  13 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  14 ROZPOZNANIE: &&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  15 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  16 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  17 ICD-10: &&&&&&& <par&>  18 TERMIN UZGODNIONEGO PRZYJĘCIA:&&&&&&&&&& <par&>  19 UWAGI: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1A &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1B &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1C &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1D &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1E &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1F          .......................................  PODPIS I PIECZĄTKA OSOBY KIERUJĄCEJ  20  - line 08 is printed when the previous line has been printed  - lines 0E to 11 are printed when the previous lines have been printed  - line 13 is printed when the previous line has been printed  - lines 15 and 16 are printed when the previous lines have been printed  - lines 1A to 1E are printed when the previous lines have been printed | |

#### 4.6.5.71 Non-fiscal document

|  |  |
| --- | --- |
| Reference number: | 50 |
| 01 DOKUMENT NIEFISKALNY  02 (pusta linia)  03 (linia typu ------------)  04 (linia typu - - - - - - )  05 (linia typu ============)  06 (linia typu = = = = = = )  11 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&> 12 &&&&&&&&&&&&&&&&&&& <par&>  13 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  14 &&&&&&&&&&&&&&&&&&& <par&>  15 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  16 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  17 &&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  22 &&&&&&&&&&&&&&&&&&& <par&>  23 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  24 &&&&&&&&&&&&&&&&&&& <par&>  25 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  26 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  27 &&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  51 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  52 &&&&&&&&&&&&&&&&&&& <par&>  53 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  54 &&&&&&&&&&&&&&&&&&& <par&>  55 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  56 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  57 &&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  58 BARCODE  59 BARCODE  5A zdefiniowana grafika  5B linia z formatowaniem tekstu  - line 11-17 aligned to the left margin,  - lines 21 to 27 are aligned to the right margin,  - lines 51 to 57 are justified to the left margin, the content is masked on the copy,  - line 58 bar code, format compatible with footer 1 and 2,  - line 59 bar code, format compatible with footer 1 and 2, the content is masked on the copy,  - line 5A print the graphics in the range 1 to 8 (defined in the printer memory)  - lines 12, 22 and 52, double-width font,  - lines 13, 23 and 53 double-height font,  - lines 14, 25 and 54, double width and height,  - line 5B line with text formatting, you can use formatting for individual characters:  \A1 - enable font smoothing  \A0 - disable font smoothing  \B1 – enable bold fonts  \B0 - disable bold fonts  \J0 - text alignment to the left  \J1 - centering  \J2 - text alignment to the right  \Mx - enlarging the fonts horizontally, 'x' from range 1 - 8 (included)  \My - enlarging the fonts vertically, 'y' from range 1 - 8 (included)  \Mxy - enlarging fonts vertically and horizontally, 'x' and 'y' from range 1 - 8 (included)  \R1 - turning the printout on in the negative  \R0 - turning the printout off in the negative  \U1 - turning on underlined printing (thickness 1 pixel)  \U2 - turning on underlined printing (thickness 2 pixel)  \U0 - turning off underlined printing  \\*1 - turning on the masked copy  \\*0 - disabling the masked copy | |

#### 4.6.5.72 Parking ticket

|  |  |
| --- | --- |
| Reference number: | 51 |
| 01  02 BILET PARKINGOWY  03 KWIT PARKINGOWY  04 PARKING:  05 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  06 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  07 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  08 NUMER BILETU: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  09 RODZAJ BILETU: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0A WJAZD:  0B DATA: ########## GODZINA: ##### <par#>  0C POJAZD: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0D NUMER REJESTRACYJNY: &&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  0E OPŁACONO:  0F ZA ### DNI ## GODZIN ## MIN. <par#>  10 DO DATA: ########## GODZINA: ##### <par#>  11 PARKOWANIE DO  12 DATA: ########## <par#>  13 GODZINA: ##### <par#>  14 OPŁATA: ######################################## <par#>  15 MONETY: ######################################## <par#>  16 KARTA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  17 PARKOMETR NR: ################################## <par#>  18  - lines 11 to 13 are centered | |

#### 4.6.5.73 Granting / Canceling points

|  |  |
| --- | --- |
| Reference number: | 52 |
| 01  02 PRZYZNANIE PUNKTÓW  03 ANULOWANIE PUNKTÓW  04 WYDANIE NAGRODY  05 ANULACJA WYDANIA NAGRÓD  06 STAN PUNKTÓW  10 ADRES PUNKTU:  11 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  12 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  13 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  14 KASA: ### KASJER: @@@@@@@@@@@@@@@@@@@@@@@@ <par#>, <par@>  15 DATA: ########## GODZINA: ##### <par#>  16 TID: ################ PID: ############### <par#>  17 UID: ############################### <par#>  18 KARTA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  19 ILOŚĆ PUNKTÓW: ################################# <par#>  1A PUNKTY ZA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1B PUNKTY RAZEM: ################################## <par#>  1C NAGRODA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1D STAN PUNKTÓW: ################################## <par#>  1E TYTUŁEM: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1F NUMER OPERCJI: ################################# <par#>  20 PARAMETRY: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21 GRUPA KLIENTÓW: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  22 GRUPA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  23 INFORMACJE  24 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  25 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  26 &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  27 \* O R Y G I N A Ł \*  28 \* K O P I A \*  29 UWAGA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2A \* U N I E W A Ż N I E N I E \*  2B | |

#### 4.6.5.74 Parameters of the loyalty scheme

|  |  |
| --- | --- |
| Reference number: | 53 |
| 01  02 PARAMETRY SCHEMATU LOJALNOŚCI  03 PARAMETRY KARTY KLIENTA  04 RAPORT TRANSAKCJI LOJALNOŚCI  10 ADRES PUNKTU:  11 (Pusta linia)  12 (Pusta linia)  13 (Pusta linia)  14 KASA: ### KASJER: #### <par#>  15 DATA: ########## GODZINA: ##### <par#>  16 TID: ################ PID: ############### <par#>  17 UID: ##################### <par#>  18 NAZWA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  19 WAZNA OD: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1A WAZNA DO: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1B REKLAMA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1C NUMER: ######################################## <par#>  1D TRANSAKCJA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1E KARTA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  1F CYFRY PAN: ##################################### <par#>  20 GRUPA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  21 LISTA ARTYKUŁÓW:&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  22 TOWAR: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  23 WSPÓŁCZYNNIK: ################################## <par#>  24 NALICZANIE: #################################### <par#>  25 INDEKS: ######################################## <par#>  26 PUNKTY: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  27 PUNKT ZA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  28 NAGRODA: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  29 LISTA NAGRÓD: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2A PARAMETRY OPERACJI: &&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2B PARAMETRY: &&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&& <par&>  2C ILOŚĆ: ######################################### <par#>  2D | |

## 4.7 Configuration commands

### 4.7.1 Date and time setup

Format

|  |
| --- |
| ESC MFB I <date\_time> ESC MFE |

Note: I = capital „i”

Description

Sets date and time.

Arguments

* *<date\_time> -* format: „ss, mm, gg; DD, MM, RR”

Acceptance conditions

* Neutral or not initialized
* The lower limit of setting the date and time is the time stamp for last record saved to the fiscal memory.
* The time can be set in total by ± 2 hours in the neutral state
* Date and time can be set any later than the last entry in the fiscal memory of the printer if the printer is in uninitialized state
* It is possible to change the date to an earlier date than the last closed fiscal day and the printer will allow the registration of sales to start, but will not allow closing the fiscal day and printing the periodic report to a time that is late than the last daily report.
* Sending a command without a parameter will call the current time check with the NTP time servers - it requires a connection to the Internet.

Example

|  |
| --- |
| ESC MFB I00,21,20;16,11,15 ESC MFE |
| ACK |
| nr wydr.000451/0006  NIEFISKALNY  ZMIANA DATY LUB CZASU  POPRZEDNI: 2018-06-16 22:14  NOWY: 2018-06-16 21:20  NIEFISKALNY  #001 Jan Kowalski  2018-06-16 21:20 21:20  15123456 |

### 4.7.2 Cashier and terminal ID setup

Format

|  |
| --- |
| ESC MFB J <cashier\_terminal\_ID> ESC MFE |

Description

Saves the cashier and terminal ID to RAM. The parameter is printed when each fiscal receipt and a nofiscal printout are closed. Defining IDs is obligatory. In addition, the configuration parameter "shop.multi.sell.points" determines whether the printer works as a single-user or with other printers in one location. If it is a location where only one printer works, setting this parameter to '0' will cause the operator and the terminal information to be printed on the receipt.

Agruments

* *<cashier\_terminal\_ID> -* format: ‘nnnkkkkkkkkkkkkkkkkkkkkk’

where:

nnn – terminal number (3 chars),

kkk… - cashier ID (max 22 chars). If the parameter is zero length, then the command will change the operator with the number 'nnn'

Acceptance conditions

Neutral or not initialized

Example

|  |
| --- |
| ESC MFB J001 Jan Kowalski ESC MFE |
| ACK |
| 000003/0291 #001 Jan Kowalski  2018-06-14 08:34  0A45CFE2C9F1AE960B87296606C1109A95B97074  ABC0123456789 |

### 4.7.3 VAT rates setup

Format

|  |
| --- |
| ESC MFB K D <VAT\_rates> ESC MFE |

Description

Saves the VAT rates in the fiscal memory. Prints confirmed VAT rate settings. The number of VAT rate changes is limited to 30. After fiscalization, the default VAT rates are: A = 23.00, B = 08.00, C = 05.00, G = exempt from tax.

Arguments

* <VAT\_rates> - gives VAT rates in the format 'aaaabbbbccccddddeeeeffffgggg', where: aaaa, ..., gggg these are VAT rates in categories A..G. VAT rates must be expressed as a percentage, multiplied by 100 (eg: 23.00% must be sent as '2300'). The n scralled rate is passed as '????'. The string '====' defines the exempt category.

Acceptance conditions

Neutral or not initialized

Example

The following example defines VAT rates as follows:

• A = 23.00%,

• B = 8.00%,

• C = 5.00%,

• D = 0.00%,

• E = nore defined (-)

• F = nore defined (-),

• G = exempt from tax (=).

|  |
| --- |
| ESC MFB KD2300080005000000????????==== ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767  nr wydr. 000408/0292  NIEFISKALNY  ZDEFINIOWANO STAWKI PODATKOWE  PTU A 23,00 %  PTU B 8,00 %  PTU C 5,00 %  PTU D 0,00 %  PTU E --,-- %  PTU F --,-- %  G SP.ZW  NIEFISKALNY  #001 Kasjer 34  2018-06-15 09:55  3E9B578C237FD502F22FC3ACEA7123D4C56D04DA  ABC0123456789 |

### 4.7.4 Registration currency setup

Format

|  |
| --- |
| ESC MFB K E [<date>] LF <currency> [LF <rounding>] [LF <hour>] ESC MFE |

Description

Changes the registration currency in the printer. The change can be carried out an infinite number of times for up to three different currencies.

Arguments

* *<date> -* format dd-mm-yy. No paper changes the currency instantly. If the date has been given, the change will be made automatically, as soon as the given day conditions are met: closed sales period, all printouts closed.
* *<hour>* - format hh-mm. Sets the time of change. No parameter is 00:00 as default.
* *<currency>* - three-letter currency code: PLN, EUR, e.t.c*.*
* *<rounding>* - number of decimal places, -2 means rounding to 0.01.

Acceptance conditions

* Neutral or not initialized
* Post fiscalization for change with date and time parameters

Example

|  |
| --- |
| ESC MFB KE 01-01-12 LF EUR LF -2 ESC MFE |
| ACK |
| nr wydr.000456/0292  NIEFISKALNY  ZMIANA WALUTY  EWIDENCYJNEJ  Nastąpi w dniu: 2018-06-15  Aktualna waluta: PLN  Nowa waluta: EUR  NIEFISKALNY  #001 Kasjer 34  2018-06-15 10:55  QRC7318C237FD502F22FC3ACEA7123D4C56D04DA  ABC0123456789 |

### 4.7.5 Payment type setup

Format

|  |
| --- |
| ESC MFB P <payment\_type> ESC MFE |

Description

Defines payment method. A maximum of 15 different payment methods can be defined during each fiscal day. This command is accepted only at the closed fiscal day. Payment is made on the receipt using the footer Q (4.3.10).

Arguments

* <payment\_type> - specifies the name of the payment method, which will be printed on the receipt. The parameter length is maximum 18 characters.

Acceptance conditions

Neutral state.

Example

|  |
| --- |
| ESC MFB PKARTA VISA ESC MFE |
| ACK |

### 4.7.6 Taxpayer name setup

Format

|  |
| --- |
| ESC MFB h [DLE] <line\_01>… [LF<linia\_n>] ESC MFE |

Description

Defines the name of the taxpayer, which can consist of a maximum of 6 lines. The taxpayer's place of sale or residence and the taxpayer's tax number are automatically printed on the printouts, it is not advisable to define them in this part of the headline.

Note

In the header it is possible to change the print attributes.

*Arguments*

* *<line\_n> -* text parameter, which can be formatted by adding the byte at the beginning of the appropriate value:
  + Normal text – no text format (allign to left)

Example: „ESC MFE h Exorigo-Upos sp. z o. o. ESC MFE”

Spację należy wpisać jako ‘ ‘ lub w kodzie ASCII: 0x20

* + Simplified formatting: in the first position of the character there is a formatted byte:
    - Bit 0 – double height (value 1)
    - Bit 1 – double width (value 2)
    - Bit 2 – bold (value 4)

The above bits can be used together (summed), so the value of the first byte can be the maximum of 7.

Example: <line\_n>:

0x02 <line\_01> - double width,

0x03 <line\_02> - double height and double width.

* + The extended line format with the DLE code in the first position and the formatted byte in the second position, after that, text is located:
    - Bit 0 - no formatting
    - Bit 1 - double width (value 2)
    - Bit 2 - bold (value 4)
    - Bit 3 - underlining (value 8)
    - Bit 4 - negative (value 16)
    - Bit 5 - tilt (value 32)
    - Bit 6 – centered (value 64)
    - Bit 7 – to right (wartość 128)

The simultaneous setting of bits 6 and 7 (center + to right) causes an error. Not all types of formatting are available for every printing mechanism.

Example::

ESC 0x03 <line\_01> - double height and double width,

ESC 0x13 <line\_03> - double height and double width in negative

ESC 0x51 <line\_04> - double height in negative, centered

Acceptance conditions

Neutral state.

Example

|  |
| --- |
| ESC MFB h ESC 0x60 Exorigo-Upos 0x20 Sp.0x20 z0x20o.0x20o. LF ESC 0x60 Drukarka' 'fiskalna LF ESC 0x60 FP20 ESC MFE |
| ACK |
| nr wydr.000465/0006  NIEFISKALNY  ZDEFINIOWANO NAGŁÓWEK  Exorigo-Upos Sp. z o.o.  DRUKARKA FISKALNA  NIEFISKALNY  #001 Jan Kowalski  2018-06-01 21:25 15:10  FGH5678OJ4ED4R7U9I92WS4RF7Y9O0O6TF  ABC1234567890 |

### 4.7.7 Point of sale address change

*Format*

|  |
| --- |
| ESC MFB h ESC MFB1 A <place> LF <tax\_office> LF <street> LF <post\_code> LF <house\_number> [LF <apartament\_number>] ESC MFE |

*Description*

The command changes the address of the point of sale. Not all data will be printed in the document header, but they are required in the JPK protocol.

*Arguments*

* *<place>, <tax\_ofice>, <street>* - the maximum length of the parameter is equal to the maximum number of characters in the line
* *<post\_code>, <house\_number>, <apartament\_number>* - maximum lenght of the parameter is 15 chars.

*Example*

|  |
| --- |
| ESC MFB h ESC MFB1 A Gliwice LF Gliwice LF Bojkowska LF 44-100 LF 35 LF B2 ESC MFE |
| ACK |
| nr wydr.000466/0006  NIEFISKALNY  ZDEFINIOWANO ADRES PUNKTU SPRZEDAŻY  44-100 Gliwice  Ul. Bojkowska 35/B2  NIEFISKALNY  #001 Jan Kowalski  2018-06-01 21:25 15:06  FGH5678OJ4ED4R7U9I92WS4RF7Y9O0O6TF  ABC1234567890 |

### 4.7.8 Nonfiscal document header disable

*Format*

|  |
| --- |
| ESC MFB h ESC MFB1 n ESC MFE |

*Description*

The command causes one-off printing of the header in a non-fiscal document or a predeined form that follows this command.

*Acceptance conditions*

Neutral state.

*Example*

|  |
| --- |
| ESC MFB h ESC MFB1 n ESC MFE |
| ACK |

### 4.7.9 Xon/Xoff transmition protocol setup

Format

|  |
| --- |
| ESC MFB y <protocol> ESC MFE |

Arguments

* *<protocol>*

5 – enable,

4 – disable

Working principles in Xon/Xoff mode

In this mode, the printer sends a Xon character (ASCII code 0x11) to the host in 3-second intervals, which means the printer is ready. The printer sends the Xoff character in 3-second intervals (ASCII code 0x13), if it executes the task and can not accept another command.

Example

|  |
| --- |
| ESC MFB 'y5' ESC MFE |
| ACK |
| 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 0x11 |
| ESC MFB 'y4' ESC MFE |
| 0x13 ACK |

### 4.7.10 Invoice EURONIP printout

Format

|  |
| --- |
| ESC MFB g E <0 | 1> ESC MFE |

Description

Enables EURONIP field on invoice printout

Arguments

* *<0 | 1> - 1 –* enable, 0 - disable

Acceptance conditions

All printouts finished.

Example

|  |
| --- |
| ESC MFB gE0 ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  Bojkowska 35/B2  NIP PL 9281838767  FAKTURA NR: 1 |

### 4.7.11 Invoice customer signature field printout

Format

|  |
| --- |
| ESC MFB g P <0 | 1> ESC MFE |

Description

Enables customer signature field on invoice.

Arguments

* *<0 | 1> - 1 – enable, 0 - disable*

Acceptance conditions

All printouts finished.

Example

|  |
| --- |
| ESC MFB gP1 ESC MFE |
| ACK |
| Nabywca: Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7  01-217 Warszawa  Biuro w Gliwicach  ul. Bojkowska 35  44-100 Gliwice  NIP Nabywcy: 928-18-38-767  …………………………………………  imię, nazwisko, podpis osoby  uprawnionej do odbioru faktury VAT  …………………………………………  imię, nazwisko, podpis osoby  uprawnionej do wystawienia faktury VAT  Data sprzedaży 2018-06-15  Data wystawienia faktury 2018-06-15  0000023/0298 #001 Jan Kowalski  2018-06-15 15:06  FGH5678OJ4ED4R7U9I92WS4RF7Y9O0O6TF  <PL>ABC1234567890 |

### 4.7.12 Totaled receipt/invoice customer display text selection

Format

|  |
| --- |
| ESC MFB t <0|1> ESC MFE |

Description

Selects text to displayed during fiscal document transaction total.

|  |
| --- |
| SUMA 10.00 |
|  |

|  |
| --- |
| RAZEM DO ZAPŁATY |
| 10.00 |

Arguments

* <0|1> - describes text to display.

0 – SUMA

1 – RAZEM DO ZAPŁATY

Acceptance conditions

Neutral state or sale perion opened

Example

|  |
| --- |
| ESC MFB t1 ESC MFE |
| ACK |

### 4.7.13 Configuration setup parameters

Format

|  |
| --- |
| ESC MFB % s ESC MFB1 <name> LF <value> ESC MFE |

New seting must be saved with "% c" command:

|  |
| --- |
| ESC MFB % c ESC MFB1 <s – save | r – cancel> ESC MFE |

| **Name** | **Description** | **Authorization** | **Min**  **value** | **Max value** |
| --- | --- | --- | --- | --- |
| langen.prn | Converts the printer language to English in a technological printer (0 - polish, 1 - english) | MANUFACTURER | 0 | 1 |
| langen.shell | Changes the shell language to English (0-polish, 1-english) | USER | 0 | 1 |
| log.level | Defines the level of logging: 0-errors protocol (default), 16 – errors, 32 – notes, 48 - kernel errors, 53 - kernel warnings, 64 – info, 80 - debug info, 96 - kernel debug info, 255 – all | SERVICE | 0 | 255 |
| sdlog.level | Ability to log errors / warnings on the SD card. Logging levels: 0 -disabled, 16 -errors, 32 - warnings, 48 -kernel errors, 53 -kernel warnings, 64 -info , 80 -debug info, 96 -kernel debug info, 255 -all | SERVICE | 0 | 255 |
| sdlog.max.size | It determines how much maximum memory can be occupied by log files. By default, a maximum of 512MB has been adopted. | SERVICE | 0 | 536870912 |
| log.timestamp | Sets the login interval (unit = 0,5s) | SERVICE | 0 | 2147483647 |
| log.print.rcpt | Redirects logs to the original station (0 – turn off, 0 – turn on) | SERVICE | 0 | 1 |
| log.print.jrn | Redirects logs to the copy station (0 – turn off, 1 – turn on) | SERVICE | 0 | 1 |
| log.clr\_pwron | Deleting logs after turning on the power | SERVICE | 0 | 1 |
| printer.offtime | The time after which the mechanism is turned off when the printer is running on battery power  Unit 0.5s | SERVICE | 3 | 4096 |
| printer.watch2sleep.time | Full sleep time after power failure and no connection via communication ports  Unit 0.5s (set default value 1200s, 10min) | SERVICE | 5 | 4096 |
| printer.paper | Paper width setting:  0 - wide, 1 - narrow  The fiscal day must be closed | USER | 0 | 1 |
| printer.density | Sets the print density (default 3) | USER | 0 | 6 |
| printer.color | Enables color printing in the printer (only if supported by the printing mechanism) | USER | 0 | 1 |
| printer.font.size | Font size: 0 - small font (default), 1 - large font. A large font (font) can not be set for narrow paper. The change is possible only on the closed fiscal day. | SERVICE | 0 | 1 |
| cutter.option | Sets the cutter operation mode  0 - auto, 1 – on demand, 2 – turned off | USER | 0 | 2 |
| cutter.paper\_save | Paper saving functions in the operation of the cutter  0 – turned off, 1 – turned on  Depending on the possibilities of the printing mechanism | USER | 0 | 1 |
| cutter.option\_pff | Cutting cutter mode  0 - full, 1 - partial, 2 - only extension Depending on the possibilities of the printing mechanism | USER | 0 | 2 |
| cutter.paper\_push | Push out paper after cutting - it is not supported by all printers | USER | 0 | 1 |
| ser.a.speed | Port speed A. Unit - 1 b/s | SERVICE | 1200 | 1000000 |
| ser.a.parity | Port parity check A (1 – none, 2 – odd, 4 – even) | SERVICE | 1 | 4 |
| ser.a.stops | Number of port stop bits A | SERVICE | 1 | 2 |
| ser.a.duplex | Port duplex A (1 – half - duplex, 2 – full - duplex) | SERVICE | 1 | 2 |
| ser.a.prot | Port A protocol (1 – shell, 2 – log, 8 – loopback, 256 – FP210, 2048 – EJ, 32768 – wył.) | USER | 1 | 32768 |
| usb.a.prot | Port USB protocol (1 – shell, 2 – log, 8 – loopback, 256 – FP210,  , 2048 – EJ, 32768 – wył.) | USER | 1 | 32768 |
| code\_page | The choice of the code page (16 – 852, 17 – 1250, 18 – ISO88592, 19 – Mazovia) | USER | 0 | 19 |
| display.status | Display of printer information on the display (0 – turn off, 1 – turn on) | USER | 0 | 1 |
| audio.volume | Volume - only in modules with a loudspeaker | USER | 0 | 100 |
| audio.key\_volume | Sound volume when using buttons - only in modules with a loudspeaker | USER | 0 | 100 |
| cd.1.pulse | Setting the duration of the opening pulse of the first drawer. Unit = 1ms (50-500ms) | UŻYTKOWNIK | 50 | 500 |
| cd.2.pulse | Setting the duration of the opening pulse of the first drawer. Unit = 1ms (50-500ms) | UŻYTKOWNIK | 50 | 500 |
| invoice.copy\_count | The amount of additional invoice copies:  0-no copy, 1-one copy. (default: 1) | USER | 0 | 3 |
| prn.reduce\_spacing | Reduce the distance between lines (0 – turn off, 1 – turn on) | USER | 0 | 1 |
| po.rcpt.layout | Setting the receipt print format - the option depends on the national version | USER | 0 | 500 |
| po.canc\_after.pwr | Automatic cancellation of multi-instruction printouts after a power failure  0 – turn off  1 – turn on | USER | 0 | 1 |
| po.canc\_after.cable\_discon | Automatic cancellation of multi-instruction printouts after disconnecting the interface cable  0 – turn off  1 – turn on | USER | 0 | 1 |
| graph.bhead\_fiscal | Automatic printout of the logo in front of the fiscal receipt header  0 – turn off  1-8 – turn on of the chosen graphic  100 – enables the defined graphic | USER | 0 | 100 |
| graph.foot\_fiscal | Automatic printout of the logo in the footer of fiscal document  0 – turn off  1-8 – turn on of the chosen graphic  100 – enables the defined graphic | USER | 0 | 100 |
| graph.bhead\_nonfiscal | Automatic printing of graphic before non-fiscal forms  0 – turn off  1-8 – turn on of the chosen graphic  100 – enables the defined graphic | USER | 0 | 100 |
| graph.build\_in\_image | Graphic number defined in the firmware (Image support 4.5) | USER | Pic1 | Pic44 |
| service.name | SERVICE name (40 characters) printed on the printout from power on, when you need to call SERVICE | USER | NULL  (łańcuch pusty) | 40 |
| service.phone | SERVICE telephone (20 characters) printed on the printout from the power on, when you need to call SERVICE | USER | NULL  (łańcuch pusty) | 20 |
| service.fax | Fax for SERVICE (20 characters) printed on the printout from power on, when you need to call SERVICE | USER | NULL  (łańcuch pusty) | 20 |
| service.email | E-mail to SERVICE (40 characters) printed on the printout from the power on, when you need to call SERVICE | USER | NULL  (łańcuch pusty) | 40 |
| service.date | Date of the next SERVICE review (format: YYYY.MM.DD) | USER | 10 | 10 |
| math.limit.rcpt.item | Limitation max. the sales value of the receipt.  If an empty string is accepted, the limit is max. acceptable | USER | NULL  (blank string) | 20 |
| math.limit.rcpt.total | Limitation max. the value of the total of the receipt.  If an empty string is accepted, the max. acceptable. | USER | NULL  (blank string) | 20 |
| math.limit.rcpt.pay | Limitation max. payment value of the receipt.  If an empty string is accepted, the max. acceptable. | USER | NULL  (blank string) | 20 |
| math.limit.inv.item | Limitation max. invoice sales value.  If an empty string is accepted, the max. acceptable. | USER | NULL  (blank string) | 20 |
| math.limit.inv.total | Limitation max. the value of the invoice sum.  If an empty string is accepted, the max. acceptable. | USER | NULL  (blank string) | 20 |
| math.limit.inv.pay | Limitation max. the payment value for the invoice.  If an empty string is accepted, the max. acceptable. | USER | NULL  (blank string) | 20 |
| math.limit.ref.item | Limitation max. sales value for return.  If an empty string is accepted, the max. acceptable. | USER | NULL  (blank string) | 20 |
| math.limit.ref.total | Limitation max. the value of the refund sum.  If an empty string is accepted, the max. acceptable. | USER | NULL  (blank string) | 20 |
| math.limit.ref.pay | Limitation max. refund payment value.  If an empty string is accepted, the max. acceptable. | USER | NULL  (blank string) | 20 |
| net.dhcp | Enable the dhcp client;  Option ignored for the version without Ethernet  1 – turned on (default)  0 – turned off | USER | 0 | 1 |
| net.ip | Printer's IP address and mask, format: IP / MASK (e.g. "192.168.1.254/24");  option ignored for the version without Ethernet or when dhcp is enabled | USER | - | - |
| net.gateway | Default gateway, format: IP (e.g. "192.168.1.1");  option ignored for the version without ethernet or when dhcp is enabled | USER | - | - |
| net.logging.enabled | Enable sending logs to the selected host  1 - switched on  0 - off (default) | USER | 0 | 1 |
| net.logging.host | The address of the host to which UDP logs should be sent, format: IP [: PORT] (e.g. "192.168.103.13:514");  option ignored for the version without Ethernet  default UDP port: 514 | USER | - | - |
| net.telnet.enabled | Enable access to the shell protocol via telnet  1 - enabled (default)  0 - switched off | USER | 0 | 1 |
| net.telnet.port | The tcp port number on which the shell is to be started - default 23 | USER | 1 | 65534 |
| net.detect.enabled | Enabling the return of responses to the printer's detection frame on the network  1 - enabled (default)  0 - switched off | USER | 0 | 1 |
| net.detect.port | The UDP port number on which the printer detection service should be started, default 6000 | USER | 1 | 65534 |
| net.prot.fp210a.enabled | Enabling the FP210 protocol (a) via Ethernet  1 - enabled (default)  0 - switched off | USER | 0 | 1 |
| net.prot.fp210a.port | TCP port number on which the FP210 protocol will be launched (a) - default 6090 | USER | 1 | 65534 |
| net.prot.fp210b.enabled | Enable the FP210 protocol (b) via Ethernet  1 - enabled (default)  0 - switched off | USER | 0 | 1 |
| net.prot.fp210b.port | The TCP port number on which the FP210 protocol is started (b) - 6091 by default | USER | 1 | 65534 |
| net.prot.ej.enabled | Enable the dump protocol via Ethernet  1 - enabled (default)  0 - switched off | USER | 0 | 1 |
| net.prot.ej.port | TCP port number on which the EJ protocol will be started - default 6001 | USER | 1 | 65534 |
| net.flowcontrol | Enable flow control  1 - enabled (default)  0 - switched off | USER | 0 | 1 |
| net.duplex | Configuration of duplex mode  0 - OFF  1 - ON  2 - AUTO | USER | 0 | 2 |
| protocol.fp210.model | The printer model returned in the question about versions in the FP210 protocol (FP-T260FV, FP-T260FVA, FP-T88FVA, FP-TA10FVA and 950FV for FP950FV) | USER | - | 20 |
| protocol.fp210.version | the printer's firmware version is returned in the esc + v query in the FP210 protocol if it is param. is empty, the correct version is returned | USER | - | 12 |
| disp.total | Switch between subtitles displayed on the display  0 - sum  1 - together for payment | USER | 0 | 1 |
| disp.customer.check | Configurable client display presence checking - availability depending on the national version  0 - disabled  1 - included | SERVICE | 0 | 1 |
| math.vat\_breakup | Choosing an algorithm to break discounts into a sum for vat rates:  enum CmdReceiptDisc::VatBreakupAlg  0 - VBA\_BREAK\_AND\_CORRECT\_BY\_VAT\_RATE,  1 - VBA\_BREAK\_AND\_CORRECT\_BY\_ROUND\_REST,  2 - VBA\_BREAK\_AND\_CORRECT\_BY\_FASY\_STYLE | SERVICE | 0 | 5 |
| disp.customer.brightness | Display brightness, 0 default value of the controller | USER | 0 | 10 |
| disp.customer.contrast | Changing the contrast of the LCD display. Applies only to the WA-L-01 display from version 10. | USER | 0 | 10 |
| disp.customer.delayed | The line displayed is delayed by approximately 200ms. It causes the flickering effect to be eliminated at fast display. Works only with WA-L-01 display | USER | 0 | 1 |
| rtc.soft.correction | Program correction of the RTC system. Indicates the period of time in seconds for which the time correction will take place by 1 second in accordance with the correction mark | SERVICE | 0xFFFFFFFF80000001 | 0x7FFFFFFF |
| rtc.soft.winter.summer.time | Change of winter and summer time (0 -NO, 1 - YES) | SERVICE | 0 | 1 |
| shop.multi.sell.points | Variable informing whether there are many checkout points in the store (1 - YES, 0 - NO) | USER | 0 | 1 |
| po.form.mask.card.no | Support for masking cards in forms; parameter: 0-disabled (default), 1-enabled | USER | 0 | 1 |
| cmd.beep.on.error | The printer announces a command sound error with an audible signal: 0 - disabled, 1 - enabled (default) | USER | 0 | 1 |
| beep.on.iface.disconnected | The printer announces the interface cable with an audible signal: 0 - switched off, 1 - switched on (default) | USER | 0 | 1 |
| beeper.on | Turns the beep on / off. Default is set 1, set 0 - total beeper off | USER | 0 | 1 |
| print.rest | The rests are treated in the FP210 protocol:  0 - the rest is printed only when it is positive  1 - the calculated rest is always printed, even if it is negative  2 - when the rest is negative, an error is returned | USER | 0 | 2 |
| po.rcpt.item\_characters | The printout of small letters in the product name  0 - disabled  1 - enabled (default)  Small and large letters are treated as the same characters | USER | 0 | 1 |
| po.rcpt.discount\_uplif | Changing the place of printout of information about the assigned discount / uplift to the sales item  0 - the discount / uplift is printed in line with the item name  1 - the discount / uplift is printed on a separate line under the commodity name | USER | 0 | 1 |
| po.rcpt.receipt\_qr\_lower\_limit | A QR code was printed at the end of the receipt  0 - the code is not printed  1 - the code is always printed  1 / <minimum value> - the code is printed above the given sum | REPOSITORY | 0 | 1 |
| protec.mem.verification | The settings for data verification in the protected memory at the start of the printer were set  0 - disabled  1 - enabled | USER | 0 | 1 |
| firmware.update | Automatic update of the cash register work program  0 - disabled  1 - enabled | SERVICE | 0 | 1 |
| net.web.api.url | The address of the test environment on Azure: test-e-kasy.mf.gov.pl | SERVICE | - | - |
| net.web.api.port | Changing TCP Azure WebApi port, default 443 | SERVICE | - | - |
| net.server.cpd.url | The address of the CPD server test environment: esb-te.mf.gov.pl | SERVICE | - | - |
| net.server.cpd.port | Changing the TCP port of the CPD server, default 5062 | SERVICE | - | - |
| net.event.hub.port | Changing TCP Azure EventHub port, default 443 | SERVICE | - | - |
| service.period | Specifies the frequency of service inspections given in months from 12 (default) to 60 | SERVICE | 12 | 60 |
| service.period.warning | Defines how many days before the obligatory service inspection the printer will start printing information after the daily report has been printed  0 - no information  1 - 31 - the number of days | SERVICE | 0 | 31 |

Note

Settings back to default after RAM clear.

Example of printer name change

|  |
| --- |
| ESC MFB %s ESC MFB1 protocol.fp210.model LF FP-T88FVA ESC MFE<wpisano nazwy drukarki> |
| ACK |
| ESC MFB %c ESC MFB1 s ESC MFE<zapisano nazwy drukarki> |
| ACK |
| ESC MFB %r ESC MFB1 protocol.fp210.model ESC MFE <odczytano zapisanej nazwy drukarki> |
| ESC r NUL 0x09 UPOS-FP20 |

|  |
| --- |
| ESC MFB %s ESC MFB1 invoice.copy\_count LF 0 ESC MFE <sprzedaż bez kopii faktury> |
| ACK |
| ESC MFB %c ESC MFB1 s ESC MFE <zapisano zmian> |
| ACK |
| ESC MFB %r ESC MFB1 invoice.copy\_count ESC MFE <sprawdzeno wprowadzonej zmiany> |
| ESC r NUL 0x01 0 |

### 4.7.14 Configuration save

Format

|  |
| --- |
| ESC MFB % c ESC MFB1 <parameter> ESC MFE |

Description

Saves or cancels configuration parameter set with “%s” command.

Arguments

* *<parameter>*

s – save

r – cancel

Example

|  |
| --- |
| ESC MFB %c ESC MFB1 s ESC MFE |
| ACK |

### 4.7.15 Default settings

*Format*

|  |
| --- |
| ESC MFB %f ESC MFE |

*Description*

Sets factory defaults.

*Example*

|  |
| --- |
| ESC MFB %c ESC MFB1 s ESC MFE |
| ACK |

### 4.7.16 Configuraion file save

*Format*

|  |
| --- |
| ESC MFB %**z** ESC MFE |

*Description*

Saves fpconfig.xml on sdcard with configuration parameters.

*Example*

|  |
| --- |
| ESC MFB %**z** ESC MFE |
| ACK |

### 4.7.17 Configuration file readout

*Format*

|  |
| --- |
| ESC MFB %o ESC MFE |

*Description*

Reads XML configuration file fpconfig.xml.

Sample content:

<?xml version="1.0" encoding="utf-8"?>

<load\_config>

<load\_on\_ram\_erase>true</load\_on\_ram\_erase>

<load\_on\_startup>true</load\_on\_startup>

<overwrite>true</overwrite>

</load\_config>

<config\_params>

<param name="xxx" value="yyy"/>

…

</config\_params>

<header>

<line attr="8" str=" Exorigo – Upos sp. z o.o."/>

<line attr="4" str=" ul.Bojkowska 35"/>

<line attr="1" str=" 44-190 Gliwice"/>

<line attr="0" str=""/>

<line attr="0" str=""/>

<line attr="0" str=""/>

</header>

<operator> Jan Kowalski</operator>

<terminal>001</terminal>

**</xml>**

where:

* load\_config – read file parameter (required)
* load\_on\_ram\_erase – file load after RAM clear – true/false
* load\_on\_startup – file load after power on – true/false
* overwrite – overwrite file – true/false
* config\_params – parameter list (optional)
* param – printer parameters
* header – printout header (optional)
* line – next header line
* operator – operator ID (optional)
* terminal – terminal ID (optional)
* attr:

=8 double height

=4 double width

=1 bold

=0 normal

*Example*

|  |
| --- |
| ESC MFB %o ESC MFE |
| ACK |

### 4.7.18 Static trailer

*Format*

|  |
| --- |
| ESC MFB t S <line\_01>[LF<line\_02>…LF<line\_10>] ESC MFE |

*Description*

Defines text, displayed in fiscal document footer.

*Arguments*

* <line\_01> … <line \_10> - lines automatically printed in footers, saved in RAM, each line consists of 3 parameters: *<position><font\_format><text>*:
  + *<position = L | R | C>*

L – to left

R – to right

C – centered

* + *<font\_format> = <0 | 1 | 2 | 3 | 4>*

0 – normal

1 – double height

2 – double width

3 – double height and width

4 – bold

* + *<text>* - text, emty string disables static trailer.
  + *<#> -* prints barcode, according to command in chapter 4.3.21 *<bc\_string>*
  + *<#+L> -* prints graphics accoding to chapter 4.5.1

Acceptance conditions

Closed fiscal day

Example

|  |
| --- |
| ESC MFB t S C0linia tekstowa LF C0#I:D1:10:30:{A12345678 LF C0#+L1 ESC MFE |
| ACK |
| ESC MFB tSC0 LF C0 ESC MFE <usunięcie tekstu ze stopki> |
| ACK |

## 4.9 Readout commands

For all readout commands, the printer returns data in format as follows:

|  |  |  |
| --- | --- | --- |
| ESC r MSB LSB <data> | | |
| where: | | |
| ESC | - | 0x1B fixed prefix |
| r | - | 0x52 fixed prefix |
| MSB LSB | - | (MSB x 256) + LSB = amount of data |
| <data> | - | Returned data |

Example

|  |
| --- |
| ESC MFB LTtra.pay.p ESC MFE |
| ESC r 0x01 0x31 0x05 +000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00 |

### 4.9.1 Configuration readout

Format

|  |
| --- |
| ESC MFB % r ESC MFB1 <name> ESC MFE |

Description

Reads current parameter values from chapter 4.7.12 “Configuration parameters”.

Arguments

* *<name>* - name from table "% s" (chapter 4.7.12 “Configuration parameters”)

Answear

ESC 'r' MSB LSB <value>

where:

* *<value>* - current parameter value *<name>*

Example

|  |
| --- |
| ESC MFB %r ESC MFB1 disp.customer.check ESC MFE <sprawdzano obecności wyświetlacza> |
| ESC r 0x00 0x01 1 <wyświetlacz podłączony> |
| ESC MFB %r ESC MFB1 invoice.copy\_count ESC MFE <ilość drukowanych kopii dla faktury> |
| ESC r NUL 0x01 1 <drukowana będzie jedna kopia dla oryginału faktury> |

### 4.9.2 Status readout

Format

|  |
| --- |
| ESC MFB L A ESC MFE |

or

|  |
| --- |
| ESC MFB L F ESC MFE |

Answear

ESC r MSB LSB <d0 .. d4>

|  |  |  |
| --- | --- | --- |
| where: |  |  |
| d0 | - | Fiscal module status byte (see 4.13.1 printout status table) |
| d1 | - | Last error code occured (see 4.13.2 short status table) |
| d2 | - | d2 – steering program version (30h) |
| d3 | - | Country ID (Poland – 05h) |
| d4 | - | Steering program subversion (4Ch) |

Example

|  |
| --- |
| ESC MFB LF ESC MFE |
| ESC r NUL 0x05 NUL NUL 0x40 0x05 0x01 |
| ESC MFB LA ESC MFE |
| ESC r NUL 0x05 NUL NUL 0x40 0x05 0x01 |

### 4.9.3 Currency of registration readout

Format

|  |
| --- |
| ESC MFB L E ESC MFE |

Answear

ESC r MSB LSB <data>

* <data> - possible 3 types of answear:
  + No currecy change – empty answear.
  + Current currency defined, not waiting for auto currency change,

Format:

<data> = <input\_date> LF <input\_time> LF <currency> LF <rounding> LF <last\_daily\_report\_number>

* + Waiting for auto currency change,

format:

<data> = <status\_byte> 'R' LF <date\_of\_auto\_change> LF <time\_of\_auto\_chane> LF <currency> LF <rounding>

Example

|  |
| --- |
| ESC MFB LE ESC MFE |
| ESC r NUL NUL |
| ESC MFB LE ESC MFE |
| ESC r NUL 0x1C 07.03.2016 LF 12:31:06 LF PLN LF -2 LF 6 |
| ESC MFB LE ESC MFE |
| ESC r NUL 0x1D SP R LF 10.04.2016 LF 00:00:00 LF EUR LF -2 |

### 4.9.4 RTC readout

Format

|  |
| --- |
| ESC MFB L G ESC MFE |

Answear

ESC r MSB LSB <d0 d1 .. d31>

|  |  |  |
| --- | --- | --- |
| where: |  |  |
| d0…d11 | - | Clock registry; order: hour, minute, second, day, month, year (2 digits) |
| d12 | - | 0x00 |
| d13 | - | 0x80 |
| d14…d31 | - | 0x00 |

Example

|  |
| --- |
| ESC MFB LG ESC MFE |
| ESC r NUL SP 074810031631 NUL MFB NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL |

### 4.9.5 Initializig data readout

Format

|  |
| --- |
| ESC MFB L I ESC MFE |

*Note*

„I” = capital „i”

Answear

ESC r MSB LSB <data> LF <date\_and\_time>

* *<data>* - d0 .. d(n-1) where: n – amount of data
* *<date\_and\_time>* - date and time of saved record in fiscal memory, format: ‘hh:mm:ssdd.mm.yyyy’

Example

|  |
| --- |
| ESC MFB LI ESC MFE |
| ESC r NUL 0x19 abcdef LF 12:17:2825.02.2016 |

### 4.9.6. Receipt daily totalizers readout

Format

|  |
| --- |
| ESC MFB L M ESC MFE |

Answear

ESC r MSB LSB <d0 .. d69>

|  |  |  |
| --- | --- | --- |
| where: |  |  |
| d0…d9 | - | Totalizer (A) |
| d10…d19 | - | Totalizer (B) |
| d20…d29 | - | Totalizer (C) |
| d30…d39 | - | Totalizer (D) |
| d40…d49 | - | Totalizer (E) |
| d50…d59 | - | Totalizer (F) |
| d60…d69 | - | Totalizer (G) |

Example

|  |
| --- |
| ESC MFB LM ESC MFE |
| ESC r NUL  F0000000000000000000000000000000000000000000000000000000000000000000000 |

### 4.9.7 Current VAT rates readout

Format

|  |
| --- |
| ESC MFB L N ESC MFE |

Answear

ESC r MSB LSB <d0 .. d28>

|  |  |  |
| --- | --- | --- |
| where: |  |  |
| d0 | - | Numer of VAT rates (always ’7’) |
| d1…d28 | - | VAT rates, value of each rate multiplied by 100 – is saved in code BCD. 2300080005000000????????==== means: A=23.00%, B=08.00%, C=05.00%, D=00.00%, E= not defined, F= not defined, G = tax free |

*Example*

|  |
| --- |
| ESC MFB LN ESC MFE |
| ESC r NUL 0x1D 72300080005000000????????==== |

### 4.9.8 Receipt / invoice daily totalizers readout

Format

|  |
| --- |
| ESC MFB L O <parameter> ESC MFE |

Aruments

* *<parameter>*

0 – Receipt daily totalizer broken by VAT rates

1 – Last receipt totalizer broken by VAT rates

2 – Invoice daily totalizer broken by VAT rates

3 – Last invoice totalizer broken by VAT rates

4 – Daily counters in order: (MSB and LSB receipt counter, MSB and LSB invoice counter, MSB i LSB printer counter)

Answear

ESC r MSB LSB <data>

* *<data>* - returned data

Example

|  |
| --- |
| ESC MFB LO1 ESC MFE |
| ESC r NUL |
| F0000001000000000100000000015000000000000000000000000000000000000000000 |
| ESC MFB LO4 ESC MFE |
| ESC r NUL ACK NUL 0x02 NUL NUL NUL 0x07 |

### 4.9.9 Unique numer readout

Format

|  |
| --- |
| ESC MFB L P ESC MFE |

Answear

ESC r MSB LSB <number> <LF> <date\_and\_time>

* + *<number> - d0 .. d(n-1) – unique number*
  + *<date\_and\_time> - date and time of saved record in fiscal memory,*

*format: ‘hh:mm:ssdd.mm.yyyy’*

Example

|  |
| --- |
| ESC MFB LP ESC MFE |
| ESC r NUL SP ABC1234567890 LF 12:19:5025.02.2016 |

### 4.9.10 NIP (tax ID) number readout

Format

|  |
| --- |
| ESC MFB L R ESC MFE |

Answear

* Pre-fiscalization:

ESC r 00 00

* Post-fiscalization:

ESC r MSB LSB <nip> LF <date\_and\_time>

* + *<nip>* - d0 .. d(n-1) – NIP (tax id) number
  + *<date\_and\_time >* - date and time of saved record in fiscal memory,

format: ‘hh:mm:ssdd.mm.yyyy’

Example

|  |
| --- |
| ESC MFB LR ESC MFE |
| ESC r NUL SP 928-18-38-767 LF 12:24:4225.02.2016 |

### 4.9.11 Counters and totalizers readout

*Format*

|  |
| --- |
| ESC MFB L T <name> ESC MFE |

*Argument*

* <name> - parameter name from the table below

Transaction totalizers:

|  |  |  |
| --- | --- | --- |
| **Description:** | **Name:** | **Value range:** |
| Gross amount of receipt / invoice | tra.tot | 0,00 .. 1 717 986,91 |
| Gross amount of receipt / invoice broken down into PTU categories | tra.tot.v | 0,00 .. 1 717 986,91 |
| The difference between the sums of rebates and increases | tra.tot\_diff | 0,00 .. 1 717 986,91 |
| The difference between the sums of rebates and increases by PTU categories | tra.tot\_diff.v | 0,00 .. 1 717 986,91 |
| Value of returnable packages - payment phase | tra.tot\_pack | 0,00 .. 1 717 986,91 |
| Value of returnable packaging - sales phase | tra.tot\_pack\_d | 0,00 .. 1 717 986,91 |
| Total sale item cancellation amount | tra.void | 0,00 .. 1 717 986,91 |
| The total amount of rebates to sales | tra.disc | 0,00 .. 1 717 986,91 |
| Total amount of increases to sales | tra.uplf | 0,00 .. 1 717 986,91 |
| The total amount of the cancellation of sales items broken down into PTU categories | tra.void.v | 0,00 .. 1 717 986,91 |
| The total amount of rebates to sales items broken down into PTU categories | tra.disc.v | 0,00 .. 1 717 986,91 |
| The total amount of increases to sales items broken down into PTU categories | tra.uplf.v | 0,00 .. 1 717 986,91 |
| Amount of rebates to the sum of the receipt | tra.tot\_disc | 0,00 .. 1 717 986,91 |
| Amount of increases to the sum of the receipt | tra.tot\_uplf | 0,00 .. 1 717 986,91 |
| The amount of rebates to the sum of the receipt broken down into PTU categories | tra.tot\_disc.v | 0,00 .. 1 717 986,91 |
| The amount of increases to the sum of the receipt broken down into PTU categories | tra.tot\_uplf.v | 0,00 .. 1 717 986,91 |

Transaction counters:

|  |  |  |
| --- | --- | --- |
| **Description:** | **Name:** | **Value range:** |
| Number of payments | tra\_n.pay | 0 .. 32767 |
| Number of payments by type of payment | tra\_n.pay.p | 0 .. 32767 |
| Number of payment corrections | tra\_n.pay\_r | 0 .. 32767 |
| Number of payment adjustments broken down by payment types | tra\_n.pay\_r.p | 0 .. 32767 |
| Number of printed sales lines | tra\_n.item\_ln | 0 .. 32767 |
| Number of canceled sales items | tra\_n.void | 0 .. 32767 |
| The number of rebates to the sales item | tra\_n.disc | 0 .. 32767 |
| Number of increases to sales | tra\_n.uplf | 0 .. 32767 |
| Number of adjustments to canceled sales item | tra\_n.void\_r | 0 .. 32767 |
| Number of adjustments to discounts to sales items | tra\_n.disc\_r | 0 .. 32767 |
| Number of adjustments to sales items | tra\_n.uplf\_r | 0 .. 32767 |
| The number of rebates to the sum of the receipt | tra\_n.tot\_disc | 0 .. 32767 |
| The number of increases to the sum of the receipt | tra\_n.tot\_uplf | 0 .. 32767 |
| Number of corrections to rebates to the sum of the receipt | tra\_n.tot\_disc\_r | 0 .. 32767 |
| Number of corrections to increases to the sum of the receipt | tra\_n.tot\_uplf\_r | 0 .. 32767 |

Daily totalizers:

|  |  |  |
| --- | --- | --- |
| **Description:** | **Name:** | **Value range:** |
| Daily gross sales amount | day.tot | 0 .. 54 975 581,38 |
| Daily Gross Sales Volume divided by tax categories | day.tot.v | 0 .. 54 975 581,38 |
| The total value of canceled receipts and invoices | day.tot\_canc | 0 .. 54 975 581,38 |
| Daily amount of taxes | day.vat | 0 .. 54 975 581,38 |
| Daily amount of taxes broken down by tax category | day.vat.v | 0 .. 54 975 581,38 |
| Daily gross sale amount for receipts | day.rcpt\_tot | 0 .. 54 975 581,38 |
| Daily Gross Sales Volume for receipts Classified by Tax Category | day.rcpt\_tot.v | 0 .. 54 975 581,38 |
| The total amount of canceled receipts | day.rcpt\_tot\_canc | 0 .. 54 975 581,38 |
| Total tax on sales on receipts | day.rcpt\_vat | 0 .. 54 975 581,38 |
| Total tax on sales on tax receipts | day.rcpt\_vat.v | 0 .. 54 975 581,38 |
| Daily gross invoice sale amount | day.inv\_tot | 0 .. 54 975 581,38 |
| Daily gross sales tax invoices broken down by tax category | day.inv\_tot.v | 0 .. 54 975 581,38 |
| The total amount of canceled invoices | day.inv\_tot\_canc | 0 .. 54 975 581,38 |
| Total tax on sales on invoices | day.inv\_vat | 0 .. 54 975 581,38 |
| Total tax on sales on invoices broken down by tax category | day.inv\_vat.v | 0 .. 54 975 581,38 |
| The total amount of payment broken down by payment method | day.rcpt\_pay.p | 0 .. 54 975 581,38 |
| Total amount of change | day.rcpt\_change | 0 .. 54 975 581,38 |
| The total amount of the rest broken down by payment methods | day.rcpt\_change.p | 0 .. 54 975 581,38 |
| The total amount of canceled sales items | day.rcpt\_void | 0 .. 54 975 581,38 |
| The total amount of rebates to sales | day.rcpt\_disc | 0 .. 54 975 581,38 |
| Total amount of increases to sales | day.rcpt\_uplf | 0 .. 54 975 581,38 |
| The total amount of rebates to the sum of the receipt | day.rcpt\_tot\_disc | 0 .. 54 975 581,38 |
| The total amount of increases to the sum of the receipt | day.rcpt\_tot\_uplf | 0 .. 54 975 581,38 |
| The gross amount of the last receipt or invoice | day.last\_tot | 0 .. 54 975 581,38 |
| Total gross amount of the last receipt | day.last\_rcpt\_tot | 0 .. 54 975 581,38 |
| The gross amount of the last invoice | day.last\_inv\_tot | 0 .. 54 975 581,38 |

Daily counters:

|  |  |  |
| --- | --- | --- |
| **Description:** | **Name:** | **Value range:** |
| Number of receipts started | day\_n.rcpt\_open | 0 .. 524287 |
| Number of completed receipts | day\_n.rcpt\_clos | 0 .. 524287 |
| Number of receipts canceled | day\_n.rcpt\_canc | 0 .. 524287 |
| Number of fiscal openings opened automatically as a result of opening the invoice | day\_n.inv\_open | 0 .. 524287 |
| Number of completed invoices | day\_n.inv\_clos | 0 .. 524287 |
| Number of cancelled invoices | day\_n.inv\_canc | 0 .. 524287 |
| Number of printouts | day\_n.printouts | 0 .. 524287 |
| Number of technical printouts | day\_n.printouts\_async | 0 .. 524287 |
| Number of fiscal printouts | day\_n.printouts\_fis | 0 .. 524287 |
| Numer of non-fiscal printouts | day\_n.printouts\_nfis | 0 .. 524287 |
| Number of sales items, discount to items, item price increases and item cancellations | day\_n.rcpt\_itemln | 0 .. 524287 |
| Number of canceled sales items | day\_n.rcpt\_void | 0 .. 524287 |
| The number of rebates to the sales item | day\_n.rcpt\_disc | 0 .. 524287 |
| Number of increases to sales | day\_n.rcpt\_uplf | 0 .. 524287 |
| Number of corrections to sales item cancellations | day\_n.rcpt\_void\_r | 0 .. 524287 |
| Number of adjustments to discounts to sales items | day\_n.rcpt\_disc\_r | 0 .. 524287 |
| Number of adjustments to sales items | day\_n.rcpt\_uplf\_r | 0 .. 524287 |
| The number of rebates to the sum of the receipt | day\_n.rcpt\_tot\_disc | 0 .. 524287 |
| The number of increases to the sum of the receipt | day\_n.rcpt\_tot\_uplf | 0 .. 524287 |
| Number of corrections to rebates to the sum of the receipt | day\_n.rcpt\_tot\_disc\_r | 0 .. 524287 |
| Number of corrections to increases to the sum of the receipt | day\_n.rcpt\_tot\_uplf\_r | 0 .. 524287 |

Nonreset accumulators:

|  |  |  |
| --- | --- | --- |
| **Description:** | **Name:** | **Value range:** |
| Sum of gross daily gross sales | grn.tot | 0 .. 922 337 203 685 477.58 |
| Sum of gross daily sales breakdown by PTU categories | grn.tot.v | 0 .. 922 337 203 685 477.58 |
| Sum of daily tax amounts | grn.vat | 0 .. 922 337 203 685 477.58 |
| Sum of daily tax amounts broken down by tax category | grn.vat.v | 0 .. 922 337 203 685 477.58 |
| Sum of gross daily gross sales on receipts | grn.rcpt\_tot | 0 .. 922 337 203 685 477.58 |
| Sum of gross daily gross sales on receipts divided by tax category | grn.rcpt\_tot.v | 0 .. 922 337 203 685 477.58 |
| Sum of the daily gross taxes on sales on receipts | grn.rcpt\_vat | 0 .. 922 337 203 685 477.58 |
| The sum of the daily gross taxes on sales on tax receipts divided into tax categories | grn.rcpt\_vat.v | 0 .. 922 337 203 685 477.58 |
| Sum of total gross invoiced sales on invoices | grn.inv\_tot | 0 .. 922 337 203 685 477.58 |
| Sum of gross daily sales of invoices broken down by tax category | grn.inv\_tot.v | 0 .. 922 337 203 685 477.58 |
| Sum of the daily sales taxes on invoices | grn.inv\_vat | 0 .. 922 337 203 685 477.58 |
| Sum of total daily sales taxes on invoices broken down by tax category | grn.inv\_vat.v | 0 .. 922 337 203 685 477.58 |

Nonrestet counters:

|  |  |  |
| --- | --- | --- |
| **Description:** | **Name:** | **Value range:** |
| Total number of receipts initiated | grn\_n.rcpt\_open | 0 .. 2147483647 |
| The total number of completed receipts | grn\_n.rcpt\_clos | 0 .. 2147483647 |
| Total number of canceled receipts | grn\_n.rcpt\_canc | 0 .. 2147483647 |
| Total number of started invoices | grn\_n.inv\_open | 0 .. 2147483647 |
| The total number of completed invoices | grn\_n.inv\_clos | 0 .. 2147483647 |
| Number of prints since fiscalization | grn\_n.printouts | 0 .. 2147483647 |
| Number of fiscal printouts since fiscalization | grn\_n.printouts\_fis | 0 .. 2147483647 |
| Number of non-fiscal prints since fiscalization | grn\_n.printouts\_nfis | 0 .. 2147483647 |
| Number of PTU rate changes | grn\_n.fm\_vat | 0 .. 2147483647 |
| Number of header changes | grn\_n.fm\_head | 0 .. 2147483647 |
| Number of service interventions | grn\_n.fm\_serv | 0 .. 2147483647 |
| Number of open fiscal days | grn\_n.day\_open | 0 .. 2147483647 |
| Number of daily reports | grn\_n.day\_clos | 0 .. 2147483647 |

Answear

ESC r MSB LSB <type> <value0> .. <valuen-1>

* *<n>* - data number
* *<typ>* - counter/accummulator type:
  + 1-no indexed
  + 2-indexed by tax rate
  + 3,4 – not used
  + 5-indexed by payment type
* *<value>* - number
* Totalizers are saved on 19 bytes, format: "snnnnnnnnnnnnnnn,dd"  
  where:

s - "+" or "-" (1 char)

nnn... – total part (15 chars)

',' - separator (1 char)

dd – fractional part (2 chars)

* Counters are saved on 11 byes, format: "snnnnnnnnnn”

where:

s - "+" or "-" (1 char)

* nnn... – total part (10 chars)

|  |
| --- |
| ESC MFB 'LTtra.tot.v' ESC MFE<Suma brutto paragonu/faktury w rozbiciu na kategorie PTU> |
| ESC 'r' NUL 0x86 0x02 '+000000000000010,00+000000000000010,00+000000000000015,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00' <A-10zł, B-10zł, C-15zł, D-0zł, E-0zł, F-0zł, G-0zł> |
| ESC MFB 'LTtra\_n.pay' ESC MFE <Liczba płatności> |
| ESC 'r' NUL 0x0C 0x01 '+0000000000' |
| ESC MFB 'LTtra\_n.pay.p' ESC MFE <Liczba płatności w rozbiciu na typy płatności> |
| ESC 'r' NUL 'N' 0x05 '+0000000000+0000000000+0000000000+0000000000+0000000000+0000000000+0000000000' |
| ESC MFB 'LTday.tot.v' ESC MFE <Dobowa kwota sprzedaży brutto w rozbiciu na kategorie podatkowe> |
| ESC 'r' NUL 0x86 0x02 '+000000000000021,00+000000000000010,00+000000000000015,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00' |
| ESC MFB 'LTday\_n.printouts' ESC MFE <Liczba wydruków> |
| ESC 'r' NUL 0x0C 0x01 '+0000000009' |
| ESC MFB 'LTgrn.tot.v' ESC MFE <Suma sum dobowych sprzedaży brutto w rozbiciu na kategorie PTU> |
| ESC 'r' NUL 0x86 0x02 '+000000000001488,08+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00+000000000000000,00' |
| ESC MFB 'LTgrn\_n.day\_clos' ESC MFE <Liczba raportów dobowych> |
| ESC 'r' NUL 0x0C 0x01 '+0000000013' |

### 4.9.12 Properties readout

*Format*

|  |
| --- |
| ESC MFB L c <name> ESC MFE |

*Argument*

* *<name>* - defines property name from table below:

Property name table:

|  |  |
| --- | --- |
| **Name** | **Comment** |
| software.debug | Is this a test version; 1 - yes, 0 - no |
| software.version | Firmware version of the fiscal module (eg 1.05.5222) |
| software.product | Printer name (eg. FP-T260FV) |
| software.type\_id | Fiscal printer model identifier (eg F, FV or FVA) |
| software.hal\_id | Product identifier (eg ZU) |
| software.hal\_ver | Name and version of the fiscal module - hardware (if available) |
| software.prn\_ver | ID of the printing unit (if available) |
| software.country | Country code |
| software.disp\_cust\_ver | Client display version - if available |
| software.disp\_oper\_ver | Operator display version - if available |
| software.int.build | Check firmware version; In printers with version 2.04.xxxx and higher the version is differentiated by this command |
| prn.station.rcpt | Is there a receipt station? 1 - yes, 0 - no |
| prn.station.jrn | Is there a jurnal station ?; 1 - yes, 0 - no |
| prn.station.doc | Is there a document station? 1 - yes, 0 - no |
| prn.station.check | Is there a cheque validation station? 1 - yes, 0 - no |
| prn.cutter | Is there a paper cutter? 1 - yes, 0 - no |
| prn.cutter.partial | Partial cut? 1- yes, 0 - no |
| prn.cutter.full | Full cut?; 1 – yes, 0 - no |
| prn.cutter.pap\_save | Saving paper when cutting?; 1 – yes, 0 - no |
| prn.pap.with\_copy | Paper with copy?; 1 – yes, 0 - no |
| prn.pap.spacing | The ability to compact the print by reducing the space between lines?; 1 – yes, 0 - no |
| prn.barcodes | Ability to print barcodes?; 1 – yes, 0 - no |
| prn.graph | Ability to print graphic image ?; 1 – yes, 0 - no |
| prn.graph.max\_nmb | Number of available graphics |
| prn.graph.max\_x | Maximum horizontal image size in pixels |
| prn.graph.max\_y | Maximum vertical image size in pixels |
| prn.graph.div\_x | Maximum vertical image size in pixels |
| prn.graph.div\_y | Divide the number of pixels vertically |
| prn.den sity | Ability to set print density; 1 - yes, 0 - no |
| prn.used\_paper.rcpt | The amount of paper extended since the last paper change in millimeters |
| hw.cd1 | Is drawer no 1 supported?; 1 - yes, 0 - no |
| hw.cd2 | Is drawer no 2 supported? 1 – yes, 0 - no |
| hw.audio | Is speaker present?; 1 – yes, 0 - no |
| hw.xtal | Clock frequency of the fiscal module processor |
| hw.serial.a | Serial port A; 1 - available, 0 - unavailable |
| hw.serial.a.speed | Available transmition speed for port A in bit/s: |
|  | 0x0001 - 1200, 0x0002 - 2400, 0x0004 - 4800, 0x0008 - 9600, 0x0010 – 19200, 0x0020 - 38400, 0x0040 - 57600, 0x0080 - 115200, 0x0100 - 230400, 0x0200 – 460800, 0x0400 - 921600, 0x8000 - 187500 |
| hw.serial.a.parity | Available pairity for port A: |
|  | 0x01 – none, 0x02 - odd, 0x04 - even |
| hw.serial.a.stops | Allowed bit stops for port A: |
| 0x01 – 1, 0x02 - 2 |  |
| hw.serial.b | Serial port B?; 1 – available, 0 - unavailable |
| hw.serial.b.speed | Available transmition speed for port B in bit/s: |
|  | 0x0001 - 1200, 0x0002 - 2400, 0x0004 - 4800, 0x0008 - 9600, 0x0010 – 19200, 0x0020 - 38400, 0x0040 - 57600, 0x0080 - 115200, 0x0100 - 230400, 0x0200 – 460800, 0x0400 - 921600, 0x8000 - 187500 |
| hw.serial.b.parity | Available pairity for port B: |
|  | 0x01 – none, 0x02 - odd, 0x04 - even |
| hw.serial.b.stops | Allowed bit stops for port B: |
|  | 0x01 – 1, 0x02 - 2 |
| hw.fismem.size | Fiscal memory size |
| hw.flashmem.size | Flash memory size |
| ej.option | Electronic Journal available?; 1 – yes, 0 - no |
| ej.always\_enabled | Electronic journal can not be turned off / always has to be turned on; 1 - yes, 0 - no |
| ej.enable\_once | Electronic journal can only be turned on once? 1 - yes, 0 - no |
| ej.blocks | Number of electronic journal data blocks |
| ej.memsize | Amount of electronic journal memory in bytes |
| tot\_max.vat | Numer of VAT rates |
| tot\_max.group | Number of users |
| tot\_max.payment | Number of payment methods |
| tot\_max.fuel | Number of fuels |
| tot\_max.cat | Number of article categories |
| tot\_max.dep | Number of departments |
| limit.header.maxln | Number of lines in receipt header |
| limit.header.lnmaxlen | Header line lenght in characters |
| limit.dtrailer.maxln | Number of lines on dynamic trailer |
| limit.dtrailer.lnmaxlen | Dynamic trailer line lenght in characters |
| limit.strailer.maxln | Number of static trailer lines |
| limit.strailer.lnmaxlen | Static trailer line lenght in characters |
| limit.wmessage.maxln | Number of lines in welcome message |
| limit.wmessage.lnmaxlen | Welcome message line lenght in characters |
| itemdb.check | Commodities in RAM - only for VAT rates? 1 - yes, 0 - no |
| itemdb.full | Commodity in flash - full data ?; 1 - yes, 0 - no |
| receipt\_buffer\_enabled | Receipt buffer?; 1 – yes, 0 - no |
| receipt\_buffer\_min\_size | Minimum receipt buffer capacity in orders |
| receipt\_buffer\_max\_size | Maximum receipt buffer capacity in orders |
| receipt\_buffer\_tot\_corrections | Correcting rate breakdowns by departments, and categories |
| round.amount.d0 | Rounding the money amount before the denomination - positive value indicates the place before the decimal point, the negative value indicates the decimal point |
| round.amount.d1 | Rounding the monetary amount after the denomination - the positive value indicates the place before the decimal point, the negative value indicates the decimal point |
| round.quantity.d0 | Rounding the amount before denomination - positive value indicates the place before the decimal point, the negative value indicates the decimal point |
| round.quantity.d1 | Rounding after denomination - positive value indicates the place before the decimal point, the negative value indicates the decimal point |
| round.price.d0 | Rounding unit price before denomination - positive value indicates place before comma, negative value indicates decimal place |
| round.price.d1 | Rounding unit price after denomination - positive value indicates place before comma, negative value indicates decimal place |
| round.total.d0 | Rounding up the sum of the receipt before denomination - positive value indicates the place before the decimal point, the negative value indicates the decimal point |
| round.total.d1 | Rounding of the receipt amount after the denomination - positive value indicates the place before the decimal point, the negative value indicates the decimal point |
| lang.national | National language available in the technological model; 1 - yes, 0 - no |
| lang.english | English language available in the technology model ?; 1 - yes, 0 - no |
| lang.other\_menu | Another language available in the technological model; 1 - yes, 0 - no |
| fis.pos\_id\_req | Required terminal number setting; 1 - yes, 0 - no |
| fis.operator\_req | Required operator code setting; 1 - yes, 0 - no |
| fis.canc\_recpt\_time | Automatic cancellation of receipt after specified time [s]; 1 - yes, 0 - no |
| receipt.void | Receipt - possibility to make a negative position: "withdrawal" of amounts without correction ?; 1 - yes, 0 - no |
| receipt.void\_r | Receipt - possibility to make a negative position: "withdrawal" with the amount of correction ?; 1 - yes, 0 - no |
| receipt.discount | Receipt - possibility to make a negative position: "discount" amount without correction; 1 - yes, 0 - no |
| receipt.discount\_r | Receipt - possibility to make a negative position: "discount" amount with correction; 1 - yes, 0 - no |
| receipt.uplift | Receipt - ability to make a negative position: "raise" the amount without correction; 1 - yes, 0 - no |
| receipt.uplift\_r | Receipt - ability to make a negative position: "raise" amounts with correction; 1 - yes, 0 - no |
| receipt.bonus | Receipt - ability to make a negative position: "bonus" amounts without correction ?; 1 - yes, 0 - no |
| receipt.bonus\_r | Receipt - possibility to make a negative position: "bonus" amounts with correction; 1 - yes, 0 - no |
| receipt.empties | Receipt - possibility to make a negative position: "return of packages" amount without correction ?; 1 - yes, 0 - no |
| receipt.empties\_r | Receipt - possibility to make a negative position: "return of packages" with the amount of correction ?; 1 - yes, 0 - no |
| receipt.misc | Receipt - possibility to make a negative position: "other" amount without correction ?; 1 - yes, 0 - no |
| receipt.misc\_r | Receipt - possibility to make a negative position: "other" with correction; 1 - yes, 0 - no |
| receipt.return | Receipt - possibility to make a negative position: "exchange of goods" amount without correction ?; 1 - yes, 0 - no |
| receipt.return\_r | Receipt - possibility to make a negative item: "change of goods" with quotation correction; 1 - yes, 0 - no |
| receipt.per\_void | Receipt - possibility to make a negative position: "withdraw" percentage without correction ?; 1 - yes, 0 - no |
| receipt.per\_void\_r | Receipt - possibility to make a negative position: "withdraw" percentage change; 1 - yes, 0 - no |
| receipt.per\_discount | Receipt - possibility to make a negative position: "discount" percentage without correction; 1 - yes, 0 - no |
| receipt.per\_discount\_r | Receipt - possibility to make a negative position: "discount" percentage with correction; 1 - yes, 0 - no |
| receipt.per\_uplift | Receipt - possibility to make a negative position: "increase" percentage without correction ?; 1 - yes, 0 - no |
| receipt.per\_uplift\_r | Receipt - possibility to make a negative position: "raise" percentage with correction; 1 - yes, 0 - no |
| receipt.per\_bonus | Receipt - possibility to make a negative position: "bonus" percentage without correction ?; 1 - yes, 0 - no |
| receipt.per\_bonus\_r | Receipt - possibility to make a negative position: "bonus" percentage with correction; 1 - yes, 0 - no |
| receipt.per\_empties | Receipt - possibility of making a negative position: "return of packages" percentage without correction ?; 1 - yes, 0 - no |
| receipt.per\_empties\_r | Receipt - possibility to make a negative position: "return of packages" percentage with correction; 1 - yes, 0 - no |
| receipt.per\_misc | Receipt - possibility to make a negative position: "other" percentage without correction; 1 - yes, 0 - no |
| receipt.per\_misc\_r | Receipt - possibility to make a negative position: "other" percentage with correction; 1 - yes, 0 - no |
| receipt.per\_return | Receipt - possibility to make a negative position: "change of goods" percentage without correction ?; 1 - yes, 0 - no |
| receipt.per\_return\_r | Receipt - possibility to make a negative position: "change of goods" percentage with correction; 1 - yes, 0 - no |
| receipt.tot\_disc | Receipt - possibility to make a rebate to the amount without correction ?; 1 - yes, 0 - no |
| receipt.tot\_disc\_r | Receipt - ability to make a rebate to the sum of the correction; 1 - yes, 0 - no |
| receipt.tot\_per\_disc | Receipt - possibility to make a percentage discount to the sum without correction ?; 1 - yes, 0 - no |
| receipt.tot\_per\_disc\_r | Receipt - possibility to make a percentage discount to the adjusted amount; 1 - yes, 0 - no |
| receipt.tot\_uplf | Receipt - possibility to make the amount increase to the sum without correction ?; 1 - yes, 0 - no |
| receipt.tot\_uplf\_r | Receipt - the possibility of making an increase in the amount to the adjusted amount; 1 - yes, 0 - no |
| receipt.tot\_per\_uplf | Receipt - possibility to make a percentage increase to the sum without correction ?; 1 - yes, 0 - no |
| receipt.tot\_per\_uplf\_r | Receipt - possibility to make a percentage increase to the amount adjusted; 1 - yes, 0 - no |
| receipt.total\_zero | Possibility of printing a receipt with a sum equal to zero; 1 - yes, 0 - no |
| invoice.void | Invoice - possibility to make a negative position: "withdraw" in quotes without correction ?; 1 - yes, 0 - no |
| invoice.void\_r | Invoice - possibility to make a negative item: "withdraw" with the amount of correction ?; 1 - yes, 0 - no |
| invoice.discount | Invoice - possibility to make a negative position: "discount" amount without correction; 1 - yes, 0 - no |
| invoice.discount\_r | Invoice - possibility to make a negative position: "discount" amount with correction; 1 - yes, 0 - no |
| invoice.uplift | Invoice - possibility to make a negative position: "raise" the amount without correction ?; 1 - yes, 0 - no |
| invoice.uplift\_r | Invoice - possibility to make a negative position: "raise" the amount with correction; 1 - yes, 0 - no |
| invoice.bonus | Invoice - possibility to make a negative position: "bonus" amount without correction ?; 1 - yes, 0 - no |
| invoice.bonus\_r | Invoice - possibility to make a negative position: "bonus" amount with correction; 1 - yes, 0 - no |
| invoice.empties | Invoice - possibility to make negative position: "return of packages" amount without correction ?; 1 - yes, 0 - no |
| invoice.empties\_r | Invoice - possibility to make a negative position: "return of packages" with a correction amount; 1 - yes, 0 - no |
| invoice.misc | Invoice - possibility to make a negative position: "other" amount without correction ?; 1 - yes, 0 - no |
| invoice.misc\_r | Invoice - possibility to make a negative position: "other" with correction; 1 - yes, 0 - no |
| invoice.return | Invoice - possibility to make a negative position: "exchange of goods" amount without correction ?; 1 - yes, 0 - no |
| invoice.return\_r | Invoice - possibility to make a negative position: "exchange of goods" with amounts adjusted; 1 - yes, 0 - no |
| invoice.per\_void | Invoice - possibility to make a negative position: "withdrawal" percentage without correction ?; 1 - yes, 0 - no |
| invoice.per\_void\_r | Invoice - possibility to make a negative position: "withdrawal" percentage change; 1 - yes, 0 - no |
| invoice.per\_discount | Invoice - possibility to make a negative position: "discount" percentage without correction; 1 - yes, 0 - no |
| invoice.per\_discount\_r | Invoice - possibility to make a negative position: "discount" percentage with correction; 1 - yes, 0 - no |
| invoice.per\_uplift | Invoice - possibility to make a negative position: "increase" percentage without correction ?; 1 - yes, 0 - no |
| invoice.per\_uplift\_r | Invoice - possibility to make a negative position: "increase" percentage with correction; 1 - yes, 0 - no |
| invoice.per\_bonus | Invoice - possibility to make a negative position: "bonus" percentage without correction ?; 1 - yes, 0 - no |
| invoice.per\_bonus\_r | Invoice - possibility to make a negative position: "bonus" percentage with correction; 1 - yes, 0 - no |
| invoice.per\_empties | Invoice - possibility to make a negative position: "return of packages" percentage without correction ?; 1 - yes, 0 - no |
| invoice.per\_empties\_r | Invoice - possibility to make a negative position: "return of packages" percentage adjusted; 1 - yes, 0 - no |
| invoice.per\_misc | Invoice - possibility to make a negative position: "other" percentage without correction; 1 - yes, 0 - no |
| invoice.per\_misc\_r | Invoice - possibility to make a negative position: "other" percentage with correction; 1 - yes, 0 - no |
| invoice.per\_return | Invoice - possibility to make a negative position: "change of goods" percentage without correction ?; 1 - yes, 0 - no |
| invoice.per\_return\_r | Invoice - possibility to make a negative position: "change of goods" percentage change; 1 - yes, 0 - no |
| invoice.tot\_disc | Invoice - possibility to make a rebate to the amount without correction ?; 1 - yes, 0 - no |
| invoice.tot\_disc\_r | Invoice - possibility to make a rebate to the sum of the correction; 1 - yes, 0 - no |
| invoice.tot\_per\_disc | Invoice - possibility to make a percentage discount to the amount without correction ?; 1 - yes, 0 - no |
| invoice.tot\_per\_disc\_r | Invoice - possibility to make a percentage discount to the adjusted amount; 1 - yes, 0 - no |
| invoice.tot\_uplf | Invoice - possibility to make an increase to the amount without correction ?; 1 - yes, 0 - no |
| invoice.tot\_uplf\_r | Invoice - possibility to make an increase to the sum of the adjustment; 1 - yes, 0 - no |
| invoice.tot\_per\_uplf | Invoice - possibility to make a percentage increase to the sum without adjustment ?; 1 - yes, 0 - no |
| invoice.tot\_per\_uplf\_r | Invoice - possibility to make a percentage increase to the adjusted amount; 1 - yes, 0 - no |
| invoice.total\_zero | Possibility to print invoice with sum equal to zero ?; 1 - yes, 0 - no |
| refund.void | Refund - possibility of performing a negative position: "withdraw" of amounts without correction; 1 - yes, 0 - no |
| refund.void\_r | Refund - possibility of performing a negative position: "withdraw" with a correction amount; 1 - yes, 0 - no |
| refund.discount | Refund - possibility to make a negative position: "discount" amounts without correction; 1 - yes, 0 - no |
| refund.discount\_r | Refund - possibility to make a negative position: "rebate" with a correction amount; 1 - yes, 0 - no |
| refund.uplift | Refund - possibility to make a negative position: "raise" amounts without correction; 1 - yes, 0 - no |
| refund.uplift\_r | Refund - ability to perform a negative position: "raise" amounts with correction; 1 - yes, 0 - no |
| refund.bonus | Refund - possibility to make a negative position: "bonus" amounts without correction ?; 1 - yes, 0 - no |
| refund.bonus\_r | Refund - ability to make a negative position: "bonus" with a correction amount; 1 - yes, 0 - no |
| refund.empties | Refund - possibility to make a negative position: "return of packages" amount without correction ?; 1 - yes, 0 - no |
| refund.empties\_r | Refund - possibility to make a negative position: "reimbursement of the package" with a correction amount; 1 - yes, 0 - no |
| refund.misc | Refund - possibility to make a negative position: "other" amount without correction; 1 - yes, 0 - no |
| refund.misc\_r | Refund - possibility to make a negative position: "other" with correction; 1 - yes, 0 - no |
| refund.return | Refund - possibility to make a negative position: "change of goods" amount without correction ?; 1 - yes, 0 - no |
| refund.return\_r | Refund - possibility to make a negative position: "exchange of goods" with amounts adjusted; 1 - yes, 0 - no |
| refund.per\_void | Refund - possibility of performing a negative position: "withdrawal" percentage without correction; 1 - yes, 0 - no |
| refund.per\_void\_r | Refund - possibility to make a negative position: "withdrawal" percentage change; 1 - yes, 0 - no |
| refund.per\_discount | Refund - possibility to make a negative position: "discount" percentage without correction; 1 - yes, 0 - no |
| refund.per\_discount\_r | Refund - possibility to make a negative position: "discount" percentage with correction; 1 - yes, 0 - no |
| refund.per\_uplift | Refund - possibility to make a negative position: "raise" percentage without correction ?; 1 - yes, 0 - no |
| refund.per\_uplift\_r | Refund - possibility to make a negative position: "raise" percentage with correction; 1 - yes, 0 - no |
| refund.per\_bonus | Refund - possibility to make a negative position: "bonus" percentage without correction; 1 - yes, 0 - no |
| refund.per\_bonus\_r | Refund - possibility to make a negative position: "bonus" percentage with correction; 1 - yes, 0 - no |
| refund.per\_empties | Refund - possibility to make a negative position: "return of packages" percentage without correction ?; 1 - yes, 0 - no |
| refund.per\_empties\_r | Refund - possibility to make a negative position: "return of packages" percentage adjusted; 1 - yes, 0 - no |
| refund.per\_misc | Refund - possibility to make a negative position: "other" percentage without correction; 1 - yes, 0 - no |
| refund.per\_misc\_r | Refund - possible negative position: "other" percentage adjusted; 1 - yes, 0 - no |
| refund.per\_return | Refund - possibility to make a negative position: "change of goods" percentage without correction ?; 1 - yes, 0 - no |
| refund.per\_return\_r | Refund - possibility to make a negative position: "change of goods" percentage change; 1 - yes, 0 - no |
| refund.tot\_disc | Refund - possibility to make a rebate to the sum without correction ?; 1 - yes, 0 - no |
| refund.tot\_disc\_r | Refund - possibility to make a rebate to the sum of the correction; 1 - yes, 0 - no |

Example

|  |
| --- |
| ESC MFB Lcsoftware.debug ESC MFE |
| ESC r NUL 0x11 software.debug LF 0 LF |
| ESC MFB Lcsoftware.version ESC MFE |
| ESC r NUL ESC software.version LF 2.05.7016 LF |

### 4.9.13 Fiscal module memory resources readout

Format

|  |
| --- |
| ESC MFB L i <cmd> [<mem>] ESC MFE |

Description

The command is intended to create a software tool for transferring the content of fiscal module memory resources to a file via the device communication link (serial interface).

Arguments

* *<cmd> = < B | D | R | E >* - describes function:

|  |  |  |
| --- | --- | --- |
| B | - | Fiscal module memory dump start |
| D | - | Dump a block of data containing 512 bytes |
| R | - | Repeat the dump of the last block of data |
| E | - | End of the fiscal module memory dump |

* *<mem> = <P | R | F>* - defines the memory resource:

|  |  |  |
| --- | --- | --- |
| P | - | Firmware |
| R | - | RAM |
| F | - | Fiscal memory |

Argument <mem> has to be sent, if option B is selected.

Answear

If error occurs, the command returns the NAK character, otherwise the following data is returned:

* <cmd> = B

|  |
| --- |
| ESC r MSB LSB M <mem> B <memory\_size> <data\_block\_size> |

where:

* + *<mem>* - describes memory resource:

|  |  |  |
| --- | --- | --- |
| P | - | Firmware |
| R | - | RAM |
| F | - | Fiscal memory |

* + *<memory\_size>* - memory size, 2 words (4 bytes)
  + *<data\_block\_size>* - specifies the number of bytes the data block contains, word (2 bytes). The size of the data block is set to 512 bytes.
* <cmd> = D

|  |
| --- |
| ESC r MSB LSB M <mem> D <address> <CRC> <data\_block> |

or if all bytes of the data block are equal to 0x00:

|  |
| --- |
| ESC r MSB LSB M <mem> d <address> |

where:

* + *<mem>* - describes memory resource:

|  |  |  |
| --- | --- | --- |
| P | - | Firmware |
| R | - | RAM |
| F | - | Fiscal memory |

* + *<address>* - defines first block of data address, 2 words (4 bytes)
  + *<CRC>* - data block CRC32, 2 words (4 bytes)
  + *<data\_bloco>* - 512 bytes of data
* <cmd> = R

|  |
| --- |
| ESC r MSB LSB M <mem> R <address> <CRC> <data\_block> |

or if all bytes of the data block are equal to 0x00:

|  |
| --- |
| ESC r MSB LSB M <mem> r <address> |

where:

* + *<mem>* - describes memory resource:

|  |  |  |
| --- | --- | --- |
| P | - | Firmware |
| R | - | RAM |
| F | - | Fiscal memory |

* + *<address>* - okre defines first block of data address, 2 words (4 bytes)
  + *<CRC>* - data block CRC32, 2 words (4 bytes)
  + *<data\_block>* - 512 bytes of data
* <cmd> = E

|  |
| --- |
| ESC r MSB LSB M <mem> E <CRC> |

where:

* + *<mem>* - describes memory resource:

|  |  |  |
| --- | --- | --- |
| P | - | Firmware |
| R | - | RAM |
| F | - | Fiscal memory |

* + *<CRC>* - whole data dump CRC32, word (4 bajty)

Memory fragment data dump command format:

|  |
| --- |
| ESC MFB L i P <mem> <start\_address> <dump\_size> ESC MFE |

Description

Dumps selected memory fragment.

Arguments

* *<mem> = <P | R | F>* - describes memory resource:

|  |  |  |
| --- | --- | --- |
| P | - | Firmware |
| R | - | RAM |
| F | - | Fiscal memory |

* <start\_address> - two words (4 bytes), first byte address
* <dump\_size> - 2 words (4 bytes), data size must be divisible by 512 (data block size)

Notes

* When option B is selected, the <mem> argument must be defined. For other options, the <mem> argument must be omitted.
* Option E is accepted when all data blocks have been dumped.
* While reading the entire program memory, the correctness of the reading should be verified by calculating the CRC32 checksum of the received data and compared to the program memory checksum sent from the fiscal module.
* Transmission parameters: 115200 bit / s, 8 bits, no parity, 2 stop bits.
* The order of instructions to read the memory contents of the fiscal module program should be as follows:

B D D | R .. D | R E

* In the case of a memory fragment dump, the new command replaces the B command, the further procedure is the same as for the whole memory dump

Example

|  |
| --- |
| ESC MFB LiBF ESC MFE |
| ESC r NUL 0x09 M F B NUL 0x10 NUL NUL NUL MFB |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x07 M ESC d NUL NUL NUL NUL |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x07 M ESC d NUL NUL NUL MFB |
| ...  ... |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x07 M ESC d NUL NUL 0x1F MFB |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x89 M ESC D NUL NUL SP NUL d 0xF2 0x0F 0xF0 NUL NUL 0xFF NUL 0xAA U NUL 0x01 NUL NUL SP NUL p MFB2 0x03 NUL NUL 0x1E 0x09 0xE8 0xFA 0x1C NUL 0x01 NUL NUL NUL NUL 0xDD 0x0C #Exorigo-Upos SP s> 0x14 #p. SP z SP o.o. SP KNU 0x84 3#R 0xE0 W NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL oz 0x02 NUL NUL 0x07 0x09 0xE8 0xFA SP NUL 0x01 NUL NUL NUL NUL w 0x14 abcdef NUL NUL NUL NUL NUL NUL NUL 0x17 + ACK NUL NUL ESC 0x09 0xE8 0xFA ) NUL 0x01 NUL NUL NUL NUL :' |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x89 M ESC D NUL NUL SP MFB ~ 0x13 &abcdef NUL 653245 0x9C y&13 NUL PL NUL 4610FVA 0xBA Q& NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL SP 0xB8 0x07 NUL NUL 0x18 0x09 0xE8 0xFA 0x8A NUL 0x01 NUL NUL NUL NUL -i1.05.4881 NUL MF1 0xE9 ^4 SP Macarena NUL NUL NUL 7s 0x04 NUL NUL 0x0E 0x09 0xE8 0xFA 0x8F NUL 0x01 NUL NUL NUL NUL 0xD3 0xEE $ABC12345678 NUL NUL 0xB0 ' |
| ...  ... |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x89 M ESC D NUL 0x0F 0xFC MFB 0x08 9 NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL 0x0F 0xF0 NUL NUL 0xFF NUL 0xAA U NUL 0xEF NUL 0x0F 0xFC 0xE0 NAK 0x03 NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL NUL |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x07 M ESC d NUL 0x0F 0xFD NUL |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x07 M ESC d NUL 0x0F 0xFD MFB |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x07 M ESC d NUL 0x0F 0xFE NUL |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x07 M ESC d NUL 0x0F 0xFE MFB |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x07 M ESC d NUL 0x0F 0xFF NUL |
| ESC MFB LiD ESC MFE |
| ESC r NUL 0x07 M ESC d NUL 0x0F 0xFF MFB |
| ESC MFB LiE ESC MFE |
| ESC r NUL 0x07 M ESC ET( 0x02 < |

### 4.9.14 Hardware data readout

*Format*

|  |
| --- |
| ESC MFB L h ESC MFE |

Answear

ESC r MSB LSB <data> LF <date\_time>

where:

* <data> - data defined by producer
* <date\_time > - date and time of saved data in format ‘hh:mm:ssdd.mm.yyyy’

Example

|  |
| --- |
| ESC MFB Lh ESC MFE |
| ESC r NUL 0x19 abcdef LF 12:17:1825.02.2016 |

### 4.9.15 Header readout

*Format*

|  |
| --- |
| ESC MFB L n ESC MFE |

Answear

ESC r MSB LSB <line\_01> LF .. <line\_06> LF

Example

|  |
| --- |
| ESC MFB Ln ESC MFE |
| ESC r NUL 0xAB SP SP SP SP SP SP SP Exorigo-Upos SP Sp. SP z SP o.o. LF SP SP SP SP SP SP SP SP SP SP SP ul.Kolejowa SP 5/7 LF SP SP SP SP SP SP SP SP SP SP SP 01-217 SP Warszawa LF SP SP SP SP SP SP SP SP SP SP Biuro SP w SP Gliwicach LF SP SP SP SP SP ul.Bojkowska SP 37, SP Budynek SP 2 LF SP SP SP SP SP SP SP SP SP SP SP 44-100 SP Gliwice LF |

### 4.9.16 Terminal and operator code readout

Format

|  |
| --- |
| ESC MFB L o ESC MFE |

Description

Reads terminal and operator code.

Answear

ESC r MSB LSB <terminal> LF <operator>

where:

* *<terminal>* - terminal description
* *<operator>* - operator description

Example

|  |
| --- |
| ESC MFB Lo ESC MFE |
| ESC r NUL 0x11 001 LF SP Jan SP Kowalski |

### 4.9.17 Producers data readout

*Format*

|  |
| --- |
| ESC MFB L p ESC MFE |

Answear

ESC 'r' MSB LSB <data> LF <date\_time>

where:

* *<data>* - producers record saved in fiscal memory
* *<date\_time >* - date and time of save in foramt ‘hh:mm:ssdd.mm.yyyy’

Note

Command is optional. Currently date is not saved in fiscal memory.

Example

|  |
| --- |
| ESC MFB Lp ESC MFE |
| ESC r NUL NUL |

### 4.9.18 Download the latest state of the repository server

*Format*

|  |
| --- |
| ESC MFB [ J ESC MFE |

*Description*

Reads the last document number processed by the repository server.

### 4.9.19 Read the JPKID of the last sent document

*Format*

|  |
| --- |
| ESC MFB Lx ESC MFE |

*Description*

It lets to read out the JPKID information and the date and time of the last document sent to the CPD

Example

|  |
| --- |
| ESC MFB Lx ESC MFE |
| ACK |
| ESC 'r' NUL 0x17 '000041' SP '2018-12-14T13:55' |

## 4.10 Auxiliary commands

### 4.10.1 Service report

Format

|  |
| --- |
| ESC MFB a <type> ESC MFE |

*Description*

Prints service report depending on used parameter.

Arguments

* <type>

|  |  |  |
| --- | --- | --- |
| I | - | Information report |
| R | - | RAM clear report |
| C | - | Codepage report |
| V | - | Printer firmware update report |
| M | - | Fiscal memory firmware report – prints name, version and checksum |

Note

M type requires service jumper on.

Example

|  |
| --- |
| ESC MFB aI ESC MFE |
| ACK |

### 4.10.2 Open drawer

Format

|  |
| --- |
| ESC MFB X <t1> <t2> [<ns>] ESC MFE |

*Description*

The command opens the selected drawer.

Arguments

* <t1>, <t2> - ignored
* <ns> - drawer’s number (1 or 2, default 1).

Example

|  |
| --- |
| ESC MFB X001 ESC MFE |
| ACK |

### 4.10.3 Paper feed

Format

|  |
| --- |
| ESC MFB s F <station> <amount> ESC MFE |

Description

Feeds the paper, all printouts have to be finished.

Arguments

* *<station> -* R or B
* *<amount> -* how many lines to feed (ACSII [0-9])

Example

|  |
| --- |
| ESC MFB sFR2 ESC MFE |
| ACK |
| ESC MFB sFB2 ESC MFE |
| ACK |

### 4.10.4 Paper cut

Format

|  |
| --- |
| ESC MFB sC ESC MFE |

*Description*

Feeds the paper by one line and cuts the paper

Example

|  |
| --- |
| ESC MFB sC ESC MFE |
| ACK |

### 4.10.5 Inventory report

Format

|  |
| --- |
| ESC MFB w ESC MFB1 <a|b|c> ESC MFB2 <text\_l> LF <text\_r> ESC MFE |

Description

Creates an inventory report, line by line.

Arguments

* *<a|b|c> -* determines the phase of the printout

where:

|  |  |  |
| --- | --- | --- |
| a | - | start |
| b | - | line |
| c | - | end |

* *<tekst\_l> -* textallign to left
* *<tekst\_r> -* textallign to right

Example

|  |
| --- |
| ESC MFB w ESC MFB1 a ESC MFB2 Proszki do prania ESC MFE |
| ACK |
| ESC MFB w ESC MFB1 b ESC MFB2 5906204001612 Proszek do kolor 0xA2 w LF 25 ESC MFE |
| ACK |
| ESC MFB w ESC MFB1 b ESC MFB2 5906204007619 Proszek dla alergik 0xA2 w LF 5 ESC MFE |
| ACK |
| ESC MFB w ESC MFB1 b ESC MFB2 5906204007619 S 0xA2 l do firan LF 51 ESC MFE |
| ACK |
| ESC MFB w ESC MFB1 c ESC MFE |
| ACK |
| NIP 6581068378  nr wydr.000524/1420  NIEFISKALNY  Raport inwentaryzacyjny  Proszki do prania  5906204001612 Proszek do kolorów 25  5906204007619 Proszek dla alergików 5  5906204007619 Sól do firan 51  ..........................................  NIEFISKALNY  #123 Kasjer 34  2018-06-28 19:19  ABC0123456789 |

### 4.10.6 Test commands

Format

|  |
| --- |
| ESC MFB \* <test> ESC MFE |

Description

The command is used to test individual elements of the fiscal device. Tests can be performed on a closed fiscal day. Memory test - writing a test record to fiscal memory can also be performed after fiscalization.

Arguments

* *<test> -* test type:

|  |  |  |
| --- | --- | --- |
| A | - | Clock test |
| B | - | drawer (requires drawer with open/close sensor) |
| C | - | Sound test |
| D | - | Power test |
| F | - | Fiscal memory write (test record) |
| G | - | Sensors |

*Example*

|  |
| --- |
| ESC MFB \*A ESC MFE |
| ACK |

### 4.10.7 Test of the possibility of selling goods

*Format*

|  |
| --- |
| ESC MFB L b <goods\_name> LF <VAT\_rate> ESC MFE |

Arguments

* <goods\_name> - name of the item
* <VAT\_rate> - item’s vat rate

Example

|  |
| --- |
| ESC MFB LbTOWAR SP TESTOWY LF A ESC MFE |
| ACK |
| ESC MFB LbTOWAR-B LF A ESC MFE |
| NAK |
| ESC +e |
| ESC r NUL 0x02 ` 0x1A |
| ESC +o |
| ESC r NUL ,sprzeda 0xBE SP nie SP jest SP mo 0xBE liwa, SP towar SP zablokowany |

### 4.10.8 Line display

Format

|  |
| --- |
| ESC MFB G ESC MFB1 <line\_number> <text> ESC MFE |

Description

Displays text on the customer display.

Arguments

* *<line\_number>*
* 0 (ASCII code 0x30) first line,
* 1 (ASCII code 0x31) second line,
* 3 (ASCII code 0x33) – the first 7 out of 20 characters are replaced by the text RESZTA and are displayed in the second line of the alphanumeric display.
* *<text> -* string max [20] chars
* D (ASCII code 0x44) date and time display,
* T (ASCII code 0x54) time display.

Notes

The text line sent to the display must be formatted by the software application. If the length of the string written to the alphanumeric display exceeds 20 characters, the string is truncated. In order to delete a given display line, send a sequence of 20 space characters to the appropriate line (ASCII code 0x20).

Acceptance conditions

Neutral state, sale period opened.

Example

|  |
| --- |
| ESC MFB G ESC MFB1 0 Witamy ESC MFE |
| ACK |
| ESC MFB G ESC MFB1 1 w naszym sklepie ESC MFE |
| ACK |

### 4.10.9 Printer restart

*Format*

|  |
| --- |
| ESC MFB LZrestart ESC MFB1 <key> ESC MFE |

*Description*

Restarts the fiscal printer

*Arguments*

* *<key>* - the first eight characters of the SHA abbreviation from the unique number, required only in fiscal mode, the characters of the SHA abbreviation are uppercase letters.

*Example*

|  |
| --- |
| ESC MFB 'LZrestart' ESC MFB1 'AAAAAAAA' ESC MFE |
| ACK |

### 4.10.10 One time cutter/paper feed switch off

*Format*

|  |
| --- |
| ESC MFB g C <option> ESC MFE |

Description

The command changes the handling of the next automatic cut after finishing the printout.

Arguments

* <option> - optional parameter, values:

|  |  |  |
| --- | --- | --- |
| No parameter | - | no cut, - two consecutive prints, will be physically one piece of paper |
| C | - | Partial cut next |
| c | - | Partial cut next |
| H | - | No cut, next header will be printed |
| h | - | No cut, next header will not be printed |

Example

|  |
| --- |
| ESC MFB gC ESC MFE |
| ACK |

### 4.10.11 CPD server communication test

*Format*

|  |
| --- |
| ESC MFB [T ESC MFE |

Description

Tests the connection with goverment’s server.

*Answear*

* OK – prints “prawidłowa komunikacja z serwerem”
* ERROR – prints “brak komunikacji z CPD”

### 4.10.12 Firmware checksum verification

*Format*

|  |
| --- |
| ESC MFB af ESC MFE |

Description

Calculates the checksum of the cash register's firmware and compares it with the saved sum in the fiscal memory. Sending command without a service jumper on will only print a checksum of the current cash register’s firmware.

Acceptance conditions

Requires service jumper on for full functionality.

*Example*

|  |
| --- |
| ESC MFB af ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767  Nr wydr. 000031/0011  NIEFISKALNY  ------------------------------------------  Oznaczenie pamięci z programem kasy:  WERSJA PROGRAMU KASY:  80A9630FFB8191CA8791C271AF41A2FA  B03269585E57DFB7792C5EB8E553935E  ------------------------------------------ |

4.11 Protected memory commands

### 4.11.1 Protected memory - print initialization

*Format*

|  |
| --- |
| ESC MFB HEB ESC MFE |

Description

Starts the process of printing data from protected memory. Header lines are printed on top of the printout.

*Example*

|  |
| --- |
| ESC MFB HEB ESC MFE |
| ACK |
| Exorigo-Upos Sp. z o.o.  ul. Kolejowa 5/7, 01-217 Warszawa  Biuro w Gliwicach  44-100 Gliwice  ul. Bojkowska 35  NIP 9281838767    WYDRUK Z PAMIĘCI CHRONIONEJ  ------------------------------------------ |

### 4.11.2 Protected memory - document print

*Format:*

|  |
| --- |
| ESC MFB HEJ <nr\_JPKID> ESC MFE |

Description

Prints the json document with the given JPK number. According to the fiscal requirements, the printout from the protected memory does not resemble the original printout. Command can be sent many times.

Arguments

* *<nr\_JPKID>* - numeriacal parameter

*Example*

|  |
| --- |
| ESC MFB HEJ 4 ESC MFE |
| ACK |
| ------------------------------------------  ZDARZENIE  JPKID: 4  Nr pamięci chronionej: 1  ------------------------------------------  ZMIANA STAWEK VAT  Data zdarzenia: 2018-08-14T13:29:47.000Z  Nr doby: 1  A 2300  B 800  C 500  D 0  G ZW  ------------------------------------------ |

### 4.11.3 Protected memory - print end

*Format*

|  |
| --- |
| ESC MFB HEE ESC MFE |

Description

Ends printing from protected memoey data.

Example

|  |
| --- |
| ESC MFB HEE ESC MFE |
| ACK |
| ------------------------------------------  KONIEC WYDRUKU Z PAMIĘCI CHRONIONEJ  2018-08-16 08:35  ABC0123456789 |

### 4.11.5 Protected memory read commands

#### 4.11.5.1 Protected memory - read initialization

*Format*

|  |
| --- |
| ESC MFB LeI ESC MFE |

*Note*: I = capital “i”

*Description*

Initializes drive read. The command returns an error (NAK) if the drive is being verified, contains incorrect data or is not inserted. In the case of a change in the carrier's state, for example: "write in progress" or "is extracted", the drive automatically cancels read mode - the other Le commands will return an error (NAK).

*Answear format*

|  |
| --- |
| ESC r <lenght\_2B> LeI <unique\_number> LF <drive\_label> LF <O|C> |

*Arguments*

* <unique\_number> - unique number
* <drive\_label> - drive label
* <O|C> - O: drive from other device, C: drive from this device

*Example*

|  |
| --- |
| ESC MFB LeI ESC MFE |
| ESC r NUL %LeIABC1234567890 LF EJ\_ABC1234567890\_2 LF C |

#### 4.11.5.2 Protected memory - file/directory tree readout

*Format*

|  |
| --- |
| ESC MFB LeLB L|T|D [<directory>] ESC MFE |

|  |
| --- |
| ESC MFB LeLC ESC MFE |

*Description*

Returns file list and directory tree saved in protected memory. LeI command has to be used first.

*Arguments*

* *<LeLB>* - start listing
* *<LeLC>* - listing ongoing
* *<L|T|D>* - L – list all, T – list subdirectories. D – list directories
* *<directory>* - directory name saved on drive

*Answear format*

|  |
| --- |
| ESC r <lenght\_2B> LeL <d|f> : <file\_name> LF <ascii\_file\_lenght> LF <modification\_date> LF |

|  |
| --- |
| ESC r <lenght\_2B> LeN |

*Description*

* LeL - files and subdirectories of selected directory
* LeN - end of list
* Max package size is 1.2kB and 16 files
* NAK is returned if error occurs

*Arguments*

* *<d|f>* - d – directory, f - file
* *<file\_name>* - full path
* *<ascii\_file\_lenght>* - amount of Bytes, in hex
* *<modification\_date>* - format: YYYYMMDDHHMMSS

*Example*

|  |
| --- |
| ESC MFB LeLBLdziennik ESC MFE |
| ESC r NUL 2LeLd0:/dziennik/0000-0099 LF 00000000 LF 20160303153340 LF |
| ESC MFB LeLC ESC MFE |
| ESC r NUL 0x03 LeN |

|  |
| --- |
| ESC MFB LeLBL ESC MFE |
| ESC r 0x01 ILeLd0:/dziennik LF 00000000 LF 20160303153316 LF d0:/historia LF 00000000 LF 20160303153316 LF f0:/index.xml LF 00003A0C LF 20160317100036 LF f0:/metryka.txt LF 000007A2 LF 20160317100036 LF d0:/dziennik.bak LF 00000000 LF 20160303153432 LF d0:/error\_log LF 00000000 LF 20160304085854 LF f0:/fpconfig.xml LF 00002101 LF 20160309094930 LF d0:/System SP Volume SP Information LF 00000000 LF 20160317080242 LF |
| ESC MFB LeLC ESC MFE |
| ESC r NUL 0x03 LeN |

#### 4.11.5.3 Protected memory - dump commands

*Format*

|  |
| --- |
| ESC MFB LeB <comp> LF <file\_name> ESC MFE |

|  |
| --- |
| ESC MFB LeC ESC MFE |

*Description*

LeB – dump start of selected file (target selected by application)

LeC – dump ongoing, LeI command has to be used first. Returns first package of data. NAK is returned if error occurs.

*Arguments*

* *<comp>* - describes compression algorithm, i.e. RAW – no compression
* *<file\_name>* - full file path returned in LeL (file name created on computer’s drive is the same)
* *<ascii\_file\_lenght>* - amount of Bytes, in hex

*Answear format*

|  |
| --- |
| ESC r <lenght\_2B> LeC <data\_raw\_[lenght\_2B-4]> LF <crc16\_data\_in\_frame> |

|  |
| --- |
| ESC r <lenght\_2B> LeE <crc32\_sum\_noncompressed\_file> |

*Description*

* LeC contains package of data
* Max 1024 bytes can be transfered in one package
* LeE is end of file
* NAK is returned if error occurs

*Arguments*

* <data\_raw[lenght\_2B-4]> - package of data in wanted compression type
* <crc16\_data\_in\_frame> - crc16 of package
* <crc32\_sum\_noncompressed\_file> - full file crc32

*Example*

|  |
| --- |
| ESC MFB LeBRAW LF metryka.txt ESC MFE |
| ESC r 0x03 &LeCKOPIE SP DOKUMENTOW SP Z SP KAS SP FISKALNYCH LF etykieta: SP EJ\_ABC1234567890\_2 LF od: SP 25.02.2016 SP 12:25:11 LF do: SP 17.03.2016 SP 10:00:27 LF nip: SP 928-18-38-767 LF data SP zamknocia SP nosnika: SP 00-00-0000 SP 00:00:00 LF LF nr SP unikatowy SP SP SP | SP nr SP doby SP | SP od SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP do LF LF SP ABC1234567890 SP | SP SP 00002 SP SP | SP 25.02.2016 SP 12:25:11 SP | SP 03.03.2016 SP 15:33:37 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00003 SP SP | SP 03.03.2016 SP 15:35:04 SP | SP 04.03.2016 SP 13:49:46 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00004 SP SP | SP 04.03.2016 SP 13:49:56 SP | SP 07.03.2016 SP 11:57:10 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00005 SP SP | SP 07.03.2016 SP 11:58:00 SP | SP 07.03.2016 SP 12:01:36 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00006 SP SP | SP 07.03.2016 SP 12:01:44 SP | SP 07.03.2016 SP 12:30:55 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00007 SP SP | SP 07.03.2016 SP 12:31:03 SP | SP 07.03.2016 SP 12:49:34 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00008 SP SP | SP 07.03.2016 SP 12:49:43 SP | SP 08.03.2016 SP 09:57:08 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00009 SP SP | SP 08.03.2016 SP 09:57:18 SP | SP 09.03.2016 SP 09:19:02 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 0 LF 0xF8 } |
| ESC MFB LeC ESC MFE |
| ESC r 0x03 &LeC0010 SP SP | SP 09.03.2016 SP 09:19:10 SP | SP 09.03.2016 SP 09:55:52 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00011 SP SP | SP 09.03.2016 SP 09:56:01 SP | SP 09.03.2016 SP 11:09:19 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00012 SP SP | SP 09.03.2016 SP 11:09:27 SP | SP 09.03.2016 SP 11:12:02 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00013 SP SP | SP 09.03.2016 SP 11:12:11 SP | SP 09.03.2016 SP 14:23:06 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00014 SP SP | SP 09.03.2016 SP 14:23:16 SP | SP 11.03.2016 SP 12:44:24 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00015 SP SP | SP 11.03.2016 SP 12:44:33 SP | SP 15.03.2016 SP 14:36:19 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00016 SP SP | SP 15.03.2016 SP 14:36:28 SP | SP 15.03.2016 SP 14:52:25 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00017 SP SP | SP 15.03.2016 SP 14:52:33 SP | SP 16.03.2016 SP 08:52:51 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00018 SP SP | SP 16.03.2016 SP 08:53:01 SP | SP 16.03.2016 SP 09:09:17 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00019 SP SP | SP 16.03.2016 SP 09:09:25 SP | SP 16.03.2016 SP 11:24:41 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00020 SP SP | SP 16.03.2016 SP 11:24:50 SP | SP 16.03.2016 SP 13:25:59 LF SP SP SP SP SP SP SP SP SP SP SP SP SP SP SP | SP SP 00021 SP SP | SP 16.03.2016 SP 13:26:08 SP | SP 16.03.2016 SP LF 3 0xDC |

#### 4.11.5.4 Protected memory - status readout

*Format*

|  |
| --- |
| ESC MFB LeS ESC MFE |

*Description*

Returns protected memory status

*Answear format*

|  |
| --- |
| ESC r <lenght\_2B> LeS <dump\_state> LF <drive\_state> LF <drive\_capacity> LF <available\_space> LF <block\_0\_state> LF <block\_1\_state> |

*Arguments*

* *<dump\_state>*   
  0 – not initialized, waiting for drive, LeI unavailable  
  1 – not initialized, drive ready, waiting for LeI  
  2 - initialized, LeI complete
* *<drive\_state>*  
  0 – waiting for printer communication  
  1 – no drive  
  2 – format error  
  3 – format verification  
  4 – data error  
  5 – drive read only mode  
  6 – data verification  
  7 – waiting for data dump  
  8 – saving data  
  9 – write verification  
  10 – drive closing  
  11 – write confirm  
  12 – available space verification
* *<drive\_capacity>* - capacity in KB
* *<available\_space>* - available space in KB
* *<block\_0\_state>, <block\_1\_state>* - AA/BB/CC/DD  
  AA – block state:  
  0- open  
  1- close, no dump  
  2- close, dump  
  3 - erase  
  4 - empty  
  BB – day number  
  CC – amount of data in B  
  DD – amount of data for compression in B

*Example*

|  |
| --- |
| ESC MFB LeS ESC MFE |
| ESC r NUL JLeS2 LF 07 LF 00735000 LF 00732C40 LF 00/00/000026DD/00001398 LF 04/00/00000000/00000000 LF |
| Stan zrzutu  2 | zainicjowany, było wykonane LeI  Stan nośnika  7 | oczekiwano na data do zrzutu  Pojemność nośnika: 7557120kB  Wolne miejsce na nośniku: 7547968kB  Blok0:  Stan bloku: 0 | otwarty  Numer doby: 0  Ilość danych: 9949B  Ilość danych do kompresji: 5016B  Blok1:  Stan bloku: 4 | pusty  Numer doby: 0  Ilość danych: 0B  Ilość danych do kompresji: 0B |

## 4.13 Status check

### 4.13.1 Printout status

Format

|  |
| --- |
| ESC + 0x01 |

Answear

ESC r MSB LSB <print\_type> <print\_phase>

where:

* <print\_type> - type of current ongoing printout. (2 bytes, MSB as first)

|  |  |
| --- | --- |
| Value | Description: |
| 0x00 | All printouts finished |
| 0x01 | Receipt |
| 0x02 | VAT invoice |
| 0x03 | Daily report |
| 0x04 | Periodic report |
| 0x05 | VAT rates report |
| 0x06 | Service information report |
| 0x07 | ‑ |
| 0x08 | Predefined nonfiscal report from application |
| 0x09 | Fixed caption report |
| 0x0A | Date and time setting confirmation |
| 0x0B | Header setting confirmation |
| 0x0C | VAT rates change report |
| 0x0D | Weryfikacja faktury VAT |
| 0x0E | ‑ |
| 0x0F | X report |
| 0x10 | ‑ |
| 0x11 | Startup report |
| 0x12 | ‑ |
| 0x13 | ‑ |
| 0x14 | Test results report |
| 0x15 | ‑ |
| 0x16 | ‑ |
| 0x17 | ‑ |
| 0x18 | ‑ |
| 0x19 | - |
| 0x1A | ‑ |
| 0x1B | ‑ |
| 0x1C | ‑ |
| 0x1D | ‑ |
| 0x1E | ‑ |
| 0x1F | ‑ |
| 0x20 | ‑ |
| 0x21 | Currency change report |
| 0x22 | ‑ |
| 0x23 | Terminal number setting confirmation |
| 0x24 | - |
| 0x25 | - |
| 0x26 | Printout from cache memory or SD card |
| 0x27 | - |

* <print\_phase>

|  |  |  |
| --- | --- | --- |
| Print type | Status | Description: |
| 0x00 | stale 0x00 |  |
| 0x01 | 0x00  0x01  0x02  0x03 | Receipt – open  Receipt – sale transaction ongoing  Receipt – receipt summarized  Receipt – payment settlement |
| 0x02 | 0x00  0x01  0x02  0x03 | Invoice – open  Invoice – sale transaction ongoing  Invoice – invoice summarized  Invoice – payment settlement |
| 0x03 | stale 0x00 |  |
| 0x04 | stale 0x00 |  |
| 0x05 | stale 0x00 |  |
| 0x06 | stale 0x00 |  |
| 0x07 | stale 0x00 |  |
| 0x08 | 0x00  0x01 | Predefined nonfiscal printout from application started  Predefined nonfiscal printout from application ongoing |
| 0x09 | stale 0x00 |  |
| 0x0A | stale 0x00 |  |
| 0x0B | stale 0x00 |  |
| 0x0C | stale 0x00 |  |
| 0x0D | stale 0x00 |  |
| 0x0E | stale 0x00 |  |
| 0x0F | stale 0x00 |  |
| 0x10 | stale 0x00 |  |
| 0x11 | stale 0x00 |  |
| 0x12 | stale 0x00 |  |
| 0x13 | stale 0x00 |  |
| 0x14 | stale 0x00 |  |
| 0x15 | stale 0x00 |  |
| 0x16 | stale 0x00 |  |
| 0x17 | stale 0x00 |  |
| 0x18 | stale 0x00 |  |
| 0x19 | stale 0x00 |  |
| 0x1A | stale 0x00 |  |
| 0x1B | stale 0x00 |  |
| 0x1C | stale 0x00 |  |
| 0x1D | stale 0x00 |  |
| 0x1E | stale 0x00 |  |
| 0x1F | stale 0x00 |  |
| 0x20 | stale 0x00 |  |
| 0x21 | stale 0x00 |  |
| 0x22 | stale 0x00 |  |
| 0x23 | stale 0x00 |  |

Example:

|  |
| --- |
| ESC + 0x01 |
| ESC r NUL 0x04 NUL NUL NUL NUL |

### 4.13.2 Short status

Format

|  |
| --- |
| ESC + 0x09 |

Answear

ESC r MSB LSB <printer\_status\_byte> <error\_code>

* <printer\_status\_byte> - depends of printer mode: on-line, off-line as follows:

Off-line:

|  |  |
| --- | --- |
| bit 0 | Not used, set to 0 |
| bit 1 | Not used, set to 0 |
| bit 2 | 0 = drawer 1 or 2 low level status  1 = drawer 1 or 2 high level status |
| bit 3 | 0 = on-line, 1 = off-line |
| bit 4 | Not used, set to 1 |
| bit 5 | 0 = lid closed  1 = lid opened |
| bit 6 | Not used, undefined |
| bit 7 | Not used, set to 1 |

Example

|  |
| --- |
| ESC + 0x09 |
| ESC r NUL 0x02 0xB8 NUL |

On-line:

|  |  |
| --- | --- |
| bit 0 | set to 0 |
| bit 1 | 1 = paper near end |
| bit 2 | Equal to bit 3 value |
| bit 3 | 1 = end of paper |
| bit 4 | set to 0 |
| bit 5 | set to 0 |
| bit 6 | set to 0 |
| bit 7 | set to 0 |

Example:

|  |
| --- |
| ESC + 0x09 |
| ESC r NUL 0x02 NUL NUL |

* <error\_code> - list below:

Error code:

|  |  |
| --- | --- |
| Code | Description: |
| 00 h | No error (OK) |
| 11 h | Not used |
| 12 h | RAM CMOS error |
| 13 h | Not used |
| 14 h | RAM erased |
| 15 h | RAM checksum error |
| 16 h | RTC error |
| 17 h | Not used |
| 18 h | Service jumper ON |
| 21 h | Fiscal memory damaged or changed |
| 22 h | Byte write to fiscal memory error |
| 25 h | Fiscal memory checksum error |
| 26 h | Fiscal memory full |
| 27 h | Fiscal memory address error |
| 28 h | Not used |
| 29 h | Not used |
| 2A h | Data block write to fiscal memory error |
| 2B h | Not used |
| 2C h | Not used |
| 31 h | Printer status check timeout |
| 33 h | Not used |
| 42 h | Customer display disconnected |
| 52 h | Command sequence error |
| 57 h | Command format error |
| 59 h | Fiscal memory not formated |
| 5A h | Unknown command |
| 5C h | Not used |
| 61 h | RTC setting error |
| 71 h | Totalizers overflow |
| 72 h | Transaction amount over limit |
| 73 h | VAT rate code error |
| 74 h | Aplication calculated sale value error. |
| 75 h | Article blocked |
| 76 h | Not used |
| 77 h | Total sale zero value |
| 78 h | Not used |
| 79 h | Discount against VAT rates error |
| 7B h | Undefined payment type |
| 81 h | Aplication calculated receipt value error. |
| 82 h | Article name error |
| 83 h | Not used |
| 91 h | Not used |
| 92 h | Not used |
| 93 h | Not used |
| A0 h | EJ data dump and fiscal day close required |
| A1 h | EJ server disconnected |
| A2 h | EJ data damaged |
| A8 h | Fiscal document verification error |
| ED h | Too many free lines defined in RAM |
| F0 h | Shell error |
| F1 h | Other error |
| F2 h | Task can not be executed |

It is highly recommended to use internal error codes. Short status codes are kept for compatibility with older models as well as non-Polish printers.

### 4.13.3 Long status

Format

|  |
| --- |
| ESC + 0x0A |

*Note*

Answear for this status is modified depends on older models emulation mode. Below description reffers to emulation mode only.

Answear

ESC r MSB LSB <data>

where:

* <data> - <status\_byte> <configuration\_byte> <date, time> 0x30 <receipt\_counter> <last\_daily\_record\_date> <last\_daily\_report\_number> <48\_chars\_coded\_ 0x20>

<status\_byte>:

|  |  |  |
| --- | --- | --- |
| bit 0 | Fiscal device in read only mode | 1= yes, 0= no |
| bit 1 | Fiscal level | 1= pre fiscal,  0= fiscal |
| bit 2 | Sale period (fiscal day) | 1= open, 0= close |
| bit 3 | receipt | 1= open, 0= close |
| bit 4 | Not used | set to 0 |
| bit 5 | Not used | set to 0 |
| bit 6 | Receipt summarized | 1= yes, 0= no |
| bit 7 | Nonfiscal document printout ongoing | 1= yes, 0= no |

<configuration\_byte>

|  |  |  |
| --- | --- | --- |
| bit 0 | Not used | set to 1 |
| bit 1 | Display type | 1= alphanumeric,  0= numeric |
| bit 2 | Not used | set to 0 |
| bit 3 | Xon/Xoff protocol | 1= ON, 0= OFF |
| bit 4,5,6,7 | Not used | set to 0 |

* <date, time> = ‘ssmmhhDDMMYY’, (year range 01..99 means 2001..2099),
* <receipt counter> = ‘nnnnn’ – last receipt number,
* <last daily report date> = ‘DDMMYY’,
* <last daily report number

|  |
| --- |
| ESC + 0x0A |
| 1B 72 00 4A 0C 03 34 39 33 30 31 34 30 32 30 32 30 36 30 30 30 30 30 30 30 32 30 32 30 36 30 30 31 35 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 |

### 4.13.4 Extended status

Format

|  |
| --- |
| ESC + 0x0C |

Answear

ESC r MSB LSB <fiscal\_status [4 bytes]> <printer\_status [4 bytes]>

* *<fiscal\_status>*

Bajt 1

|  |  |  |
| --- | --- | --- |
| bit 0 | Header printed | 1= yes, 0= no |
| bit 1 | Sale period opened (fiscal day) | 1= yes, 0= no |
| bit2 | Receipt opened | 1= yes, 0= no |
| bit 3 | Returnable packaging settlement opnend | 1= yes, 0= no |
| bit 4 | Receipt summarized | 1= yes, 0= no |
| bit 5 | Invoice opened | 1= yes, 0= no |
| bit 6 | Invoice summarized | 1= yes, 0= no |
| bit 7 | All customer data printed on invoice | 1= yes, 0= no |

Bajt 2

|  |  |  |
| --- | --- | --- |
| bit 0 | Hardware data saved in fiscal memory | 1= yes, 0= no |
| bit 1 | Producer data saved in fiscal memory | 1= yes, 0= no |
| bit 2 | Unique numer saved in fiscal memory | 1= yes, 0= no |
| bit 3 | Printer in fiscal mode | 1= yes, 0= no |
| bit 4 | VAT rates array saved in fiscal memory | 1= yes, 0= no |
| bit 5 | Not used | set to 0 |
| bit 6 | Fiscal memory almost full (less than 30 records available) | 1= yes, 0= no |
| bit 7 | Fiscal memory full (saved 2100 daily records or 200 RAM clear records) | 1= yes, 0= no |

Bajt 3

|  |  |  |
| --- | --- | --- |
| bit 0 | Fiscal mode | 1= yes, 0= no |
| bit 1 | Printer busy | 1= yes, 0= no |
| bit 2 | RTC error | 1= yes, 0= no |
| bit 3 | RAM erased | 1= yes, 0= no |
| bit 4 | Nonfiscal document print ongoing | 1= yes, 0= no |
| bit 5 | Header defined | 1= yes, 0= no |
| bit 6 | Periodical report print ongoing | 1= yes, 0= no |
| bit 7 | Buffer empty | 1= no, 0= yes |

Bajt 4

|  |  |  |
| --- | --- | --- |
| bit 0 | Not used | set to 1 |
| bit 1 | Fiscal memory connected | 1= yes, 0= no |
| bit 2 | Service jumper ON | 1= yes, 0= no |
| bit 3 | Display connected | 1= yes, 0= no |
| bit 4 | Alphanumeriacal display | 1= yes, 0= no |
| bit 5 | Xon/Xoff protocol selected | 1= yes, 0= no |
| bit 6 | 230V mains present | 1= yes, 0= no |
| bit 7 | Not used | set to 0 |

* *<printer\_status >*

Bajt 5

|  |  |  |
| --- | --- | --- |
| bit 0 | Not used | set to 0 |
| bit 1 | Not used | set to 0 |
| bit 2 | Drawer open signal | 0= LOW, 1= HIGH |
| bit 3 | Printer on-line | 0= yes, 1= no |
| bit 4 | Not used | set to 1 |
| bit 5 | Lid opened | 1= yes, 0= no |
| bit 6 | Paper feed buton pressed | 1= yes, 0= no |
| bit 7 | Not used | set to 0 |

Bajt 6

|  |  |  |
| --- | --- | --- |
| bit 0 | Not used | set to 0 |
| bit 1 | Not used | set to 0 |
| bit 2 | Not used | set to 0 |
| bit 3 | Cutter error | 1= yes, 0= no |
| bit 4 | Not used | set to 0 |
| bit 5 | Print mechanism firmware CRC error | 1= yes, 0= no |
| bit 6 | Not used | set to 0 |
| bit 7 | Not used | set to 0 |

Bajt 7

|  |  |  |
| --- | --- | --- |
| bit 0 | Not used | set to 0 |
| bit 1 | Near paper end sensor | 0= paper OK 1= end of paper |
| bit 2 | Not used | set to 0 |
| bit 3 | Paper end sensor | 0= paper OK 1= end of paper |
| bit 4,5,6,7 | Not used | set to 0 |

Bajt 8

|  |  |  |
| --- | --- | --- |
| bit 0,1,2, 3,4,5,6,7 | Not used | set to 0 |

Example

|  |
| --- |
| ESC + 0x0C |
| ESC r NUL 0x08 NUL 0x1F 0x21 0x1A 0x10 NUL NUL NUL |

### 4.13.5 Fiscal module internal status readout

Format:

|  |
| --- |
| ESC + f |

*Note:*

Emulation

Answear:

ESC r MSB LSB <word 1> .. <word 9>

where:

* <word 1> .. <word 9> - Information contained in status is determined by the bits of returned data words. First, most significant byte of word is returned.

word 1

|  |  |
| --- | --- |
| bit 0 | 1 = RAM damaged, 0 = RAM OK |
| bit 1 | 1 = RTC damged (real time clock), 0 = RTC OK |
| bit 2 | 1 = producer jumper ON, 0 – producer jumper OFF |
| bit 3 | 1 = service jumper ON, 0 – service jumper OFF |
| bit 4 | N/A |
| bit 5 | drawer 1 opened (if status available) |
| bit 6 | N/A |
| bit 7 | Drawer 2 opened (if status available) |
| bit 8 | 1 = RAM content invalid, 0 = RAM OK |
| bit 9 | 1 = RTC not set, 0 = RTC set |
| bit 10 | 1 = totalizers data deleted, 0 = totalizers data OK |
| bit 11 | 1 = customer display disconnected, 0 = customer display connected |
| bit 12 | N/A |
| bit 13 | 1 = battery power supply ON, 0 = mains power supplu ON |
| bit 14 | 1 = battery voltage low, 0 = battery voltage OK |
| bit 15 | 1 = mains voltage low, 0 = mains voltage OK |

word 2

|  |  |
| --- | --- |
| bit 0 | N/A |
| bit 1 | N/A |
| bit 2 | N/A |
| bit 3 | 1 = memory damaged,or initialized for other country, 0 = memory ountry codes OK |
| bit 4 | 1 = memory changed, 0 = memory not changed |
| bit 5 | N/A |
| bit 6 | N/A |
| bit 7 | 1 = data save operation available, 0 = data save operation not available |
| bit 8 | 1 = memory in read only mode, 0 = memory read/write mode enable |
| bit 9 | 1 = memory access enable, 0 = memory temporary locked |
| bit 10 | N/A |
| bit 11 | 1 = memory initialized, 0 = memory not initialized |
| bit 12 | 1 = memory serial numer saved – prefiscal mode set, 0 = memory serial number not saved |
| bit 13 | 1 = fiscal memory numer saved – fiscal mode set, 0 = fiscal memory numer not saved |
| bit 14 | N/A |
| bit 15 | N/A |

word 3

|  |  |
| --- | --- |
| bit 0 | 1 = Less than 30 free daily records entries, 0 = more than 30 free daily records entries |
| bit 1 | 1 = Memory is full, 0 = daily records are available |
| bit 2 | 1 = Less than 5 free entries in tax records, 0 = more than 5 free entries in tax records |
| bit 3 | 1 = No tax record entries available, 0 = tax record entries available |
| bit 4 | 1 = less than 10 RAM clear records availabe, 0 = more than 10 RAM clear records available |
| bit 5 | 1 = no empty RAM clear records available, 0 = empty RAM clear records available |
| bit 6 | N/A |
| bit 7 | N/A |
| bit 8 | N/A |
| bit 9 | N/A |
| bit 10 | 1 = less than 100 event records available, 0 = more than 100 event records available |
| bit 11 | 1 = no empty event records available, 0 = empty event records available |
| bit 12 | N/A |
| bit 13 | 1 = fiscal memory initialization data damaged, 0 = data ok |
| bit 14 | N/A |
| bit 15 | N/A |

word 4

|  |  |
| --- | --- |
| bit 0 | 1 = paper not loaded, 0 = paper loaded |
| bit 1 | N/A |
| bit 2 | N/A |
| bit 3 | N/A |
| bit 4 | 1 = Paper roll near the end, 0 = Paper roll present |
| bit 5 | N/A |
| bit 6 | 1 = Cover open, 0 = cover closed |
| bit 7 | 1 = Paper jam, 0 = no paper jam |
| bit 8 | 1 = Overheating of the thermal head, 0 = temperature of the thermal head within the allowable range |
| bit 9 | 1 = Auto-cutter error, 0 = auto-cutter is OK |
| bit 10 | 1 = fatal error, 0 = OK |
| bit 11 | 1 = Printer is online, 0 = printer is off-line |
| bit 12 | 1 = Printer switched off-line by fiscal module, 0 = printer switched to online mode by fiscal module |
| bit 13 | 1 = The printer is not responding to status requests, 0 = OK |
| bit 14 | 1 = Open printer head, 0 = printer head is closed |
| bit 15 | 1 = The printer is not connected to the fiscal module, 0 = The printer is connected to the fiscal module |

word 5

|  |  |
| --- | --- |
| bit 0 | 1 = Not initialized, 0 = initialized |
| bit 1 | 1 = initialized, 0 = Not initialized |
| bit 2 | 1 = set prefiscal mode (training), 0 = prefiscal mode (training) not set |
| bit 3 | N/A, set to 0 |
| bit 4 | 1 = Set fiscal mode but not yet active, 0 = fiscal mode is not set |
| bit 5 | 1 = Fiscal mode has been activated, 0 = fiscal mode has not been activated |
| bit 6 | 1 = The security mode was set when a fatal error occurred, 0 = no fatal error occurred |
| bit 7 | N/A |
| bit 8 | N/A |
| bit 9 | 1 = Technological mode, 0 = Normal mode |
| bit 10 | N/A |
| bit 11 | N/A |
| bit 12 | 1 - Printer in EURO mode |
| bit 13 | 1 – Printer with scheduled date of transition to EURO |
| bit 14 | 1 – Internal test mode |
| bit 15 | 1 – Certification mode |

word 6

|  |  |
| --- | --- |
| bit 0 | 1 = Fiscal day (sales period) is open, 0 = fiscal day is closed |
| bit 1 | 1 = The receipt header is printed before the first sale, 0 = the receipt header is printed together with the sales line |
| bit 2 | N/A |
| bit 3 | 1 = printer in stand-alone mode, 0 = printer is not in the stand-alone menu |
| bit 4 | N/A |
| bit 5 | N/A |
| bit 6 | N/A |
| bit 7 | N/A |
| bit 8 | N/A |
| bit 9 | N/A |
| bit 10 | N/A |
| bit 11 | N/A |
| bit 12 | N/A |
| bit 13 | 1 = RAM reset jumper set, 0 = RAM reset jumper not set |
| bit 14 | 1 = Battery voltage holding the RAM memory below the lower limit, 0 = battery is OK |
| bit 15 | 1 = Fiscal module startup procedure has been completed, 0 = Fiscal module startup procedure is in progress |

word 7

|  |  |
| --- | --- |
| bit 0 | 1 = The receipt header (store header) set, 0 = the receipt header is not set |
| bit 1 | N/A |
| bit 2 | N/A |
| bit 3 | N/A |
| bit 4 | 1 = Operator's ID set, 0 = Operator's ID not set |
| bit 5 | 1 = The terminal ID set, 0 = the terminal ID not set |
| bit 6 | 1 – Defined static footer |
| bit 7 | 1 = VAT rate table set, 0 = VAT rate table not set |
| bit 8 | N/A |
| bit 9 | N/A |
| bit 10 | N/A |
| bit 11 | N/A |
| bit 12 | 1 – Activation required |
| bit 13 | 1 – Printer blocked, activation required |
| bit 14 | 1 – summer time; 0 – winter time |
| bit 15 | 1 – EJ off |

word 8

|  |  |
| --- | --- |
| bit 0 | 1 – Printer connected to the server, initialized |
| bit 1 | 1 – Data is being transfered to the server |
| bit 2 | 1 – Data uploaded to the server |
| bit 3 | 1 – Data transfer error |
| bit 4 | 1 – Initialiyation error |
| bit 5 | 1 – Saving to EJ allowed |
| bit 6 | 1 – Flash memory full in 50% |
| bit 7 | 1 – Flash memory almost full |
| bit 8 | 1 – Flash memory full |
| bit 9 | 1 – Flash memory data corrupted |
| bit 10 | 1 – No flash memory detected |
| bit 11 | 1 – EJ empty |
| bit 12 | 1 – One of the EJ blocks is open for writing |
| bit 13 | 1 – At least one of the EJ blocks waiting to be dump or erased |
| bit 14 | 1 – No EJ block can be opened, but it can be dumped |
| bit 15 | 1 – Server ready |

word 9

|  |  |
| --- | --- |
| bit 0 | Jumper: Clear ALL |
| bit 1 | Reserved |
| bit 2 | Jumper: config option |
| bit 3 | 1 = empty public key records not available, 0 = empty public key records available |
| bit 4 | Boot Sorce Error – fatal error |
| bit 5 | No FLASH memory is detected or no FLASH memory of required capacity - fatal error |
| bit 6 | EJ server available |
| bit 7 | EJ server on |
| bit 8 | SD card in |
| bit 9 | SD card initialized |
| bit 10 | SD card from different printer |
| bit 11 | Verifying EJ |
| bit 12 | EJ write ongoing |
| bit 13 | SD card almost full |
| bit 14 | 1 = protected memory data verification error, 0 = protected memory data verif. ok |
| bit 15 | Protected memory not paired |

word 10

|  |  |
| --- | --- |
| bit 0 | N/A |
| bit 1 | N/A |
| bit 2 | N/A |
| bit 3 | N/A |
| bit 4 | 1 = CPD certificate is not downloaded |
| bit 5 | 1 = It’s less than 5 records for public key exchange |
| bit 6 | N/A |
| bit 7 | N/A |
| bit 8 | N/A |
| bit 9 | N/A |
| bit 10 | N/A |
| bit 11 | N/A |
| bit 12 | N/A |
| bit 13 | 1 = TPM module error; 0 = TPM correct |
| bit 14 | 0 = No certificates loaded; 1 = Certificates loaded |
| bit 15 | 1 = public key not uploaded, 0 = public key uploaded |

Example

|  |
| --- |
| ESC + f |
| ESC r 0x00 0x0E 0x17 0x50 0x40 0x50 0x00 0x00 0x08 0x10 0x00 0x40 0x80 0x00 0x00 0x00 |

### 4.13.6. Fiscal module version readout

Format

|  |
| --- |
| ESC + v |

Description

Used for fiscal module version readout

Note

Emulation returns the emulated printer's value instead of physical.

Answear

ESC r MSB LSB <data>

where:

* <data> = <printer\_type>;<country>; <invoice\_support>; <firmware\_version>; <hardware\_version>

Example

|  |
| --- |
| ESC +v |
| ESC r NUL 0x1E '20;PL;FVA;2.05.7016;MF21' SP 'Zosia' |

### 4.13.7 Internal error readout

Format

|  |
| --- |
| ESC + e |

Answear

ESC r MSB LSB <error>

where:

* <error> - internal error code (2 bytes)

Internal error list:

|  |  |
| --- | --- |
| **Error Description:** | **Error code** |
| No access, required service or manufacturer jumper | 0x2000 |
| A service jumper is required | 0x2001 |
| Passwords are different | 0x2002 |
| Sec: no access, enter unlocking key | 0x2010 |
| Unknown parameter | 0x3000 |
| Invalid parameter value | 0x3001 |
| Another master protocol is already running | 0x3002 |
| Cashier is initiated, operation not allowed | 0x3100 |
| Cash is serialized, unauthorized operation | 0x3101 |
| Cash is fiscalized, unauthorized operation | 0x3102 |
| Cash is not initialized, operation not allowed | 0x3110 |
| Cashier is not serialized, operation not allowed | 0x3111 |
| Cashier is not fiscalized, unauthorized operation | 0x3112 |
| Unlocking RAM is not needed | 0x3113 |
| Unlocking fiscal memory is not needed | 0x3114 |
| Wrong number format unique | 0x3115 |
| Bad NIP number format | 0x3116 |
| Invalid fiscal key unlock key | 0x3200 |
| The fiscal memory signature was not generated or is invalid | 0x3201 |
| Fiscal memory is already signed | 0x3202 |
| The fiscal memory is already formatted | 0x3203 |
| The fiscal memory is not empty | 0x3204 |
| The new time and date are earlier than the last record in the fiscal memory | 0x3300 |
| Setting the date and time out of the allowed range: see fiscal law | 0x3301 |
| Defined header is empty | 0x3302 |
| Empty string | 0x3800 |
| Crossing range | 0x3801 |
| Invalid character | 0x3802 |
| Not enough space for string | 0x3803 |
| Too much space for the string | 0x3804 |
| Buffer overflow | 0x4000 |
| Wrong sum checksum | 0x5000 |
| Exceeding range when adding | 0x5001 |
| Exceeding range when subtracting | 0x5002 |
| Exceeding range by multiplication | 0x5003 |
| Exceeding range when splitting | 0x5004 |
| Divide by zero | 0x5005 |
| The attempt to save the totalizer is not transactional | 0x5006 |
| Too many operations, the array on copies is full | 0x5007 |
| Unauthorized negative value | 0x5008 |
| The limit for daily values has been exceeded | 0x5009 |
| The limit for receipt value exceeded | 0x500A |
| Your sales position limit has been exceeded | 0x500B |
| Rounding error | 0x500C |
| Not initiated totalizer | 0x500D |
| Wrong number of totalizer | 0x500E |
| The given totalizer does not exist | 0x500F |
| Too many digits after the decimal point | 0x5010 |
| Value beyond the limits set by the user | 0x5011 |
| Wrong sum checksum | 0x5100 |
| The attempt to save the totalizer is not transactional | 0x5106 |
| Too many operations, the array on copies is full " | 0x5107 |
| Unauthorized negative value | 0x5108 |
| The limit for daily values has been exceeded | 0x5109 |
| The limit for receipt value exceeded | 0x510A |
| Not initialized counter | 0x510D |
| Unknown VAT rate code | 0x6000 |
| Unspecified VAT rate | 0x6001 |
| Payment is undefined | 0x6002 |
| Payment is predefined | 0x6003 |
| Group is not defined | 0x6004 |
| Group is predefined | 0x6005 |
| Bad no heading lines | 0x6006 |
| Bad footer line number | 0x6007 |
| VAT calculation error | 0x6008 |
| VAT rates can not be set | 0x600A |
| Not defined POS | 0x600D |
| No header has been defined | 0x600E |
| Tra.tot [\_v] + tra.tot\_diff [\_v] can not be negative | 0x600F |
| Price \* quantity <> amount | 0x6010 |
| Zero sales | 0x6011 |
| The zero sum of the receipt | 0x6012 |
| Negative sum of receipt | 0x6013 |
| Incorrect bill receipt | 0x6014 |
| Access to fiscal memory is not allowed | 0x6015 |
| Only available in training or fiscal mode | 0x6016 |
| Unidentified operator | 0x6017 |
| Non-defined VAT rates | 0x6018 |
| The given VAT rate table is not valid | 0x6019 |
| Sale is not possible, goods locked | 0x601A |
| Allowed only in fiscal mode | 0x601B |
| The fiscal memory is read only | 0x601C |
| Free display error | 0x601D |
| The fiscal memory is not formatted | 0x601E |
| Fiscal memory is not unlocked | 0x601F |
| Allowed only in technological mode | 0x6020 |
| Negative rest | 0x6021 |
| The rest can not be positive when it was not paid | 0x6022 |
| Incorrect proportions when raised or discounted to the sum | 0x6023 |
| The amount is greater than the cash paid | 0x6024 |
| The payout amount is too large | 0x6025 |
| There is no room in the sales receipt buffer | 0x6026 |
| The receipt item buffer is full | 0x6027 |
| Invalid VAT rate | 0x602B |
| No SHA signature record | 0x6030 |
| Sh Signatures are different | 0x6031 |
| The date / time of the currently running Z-report can not be earlier than the last saved record to FM | 0x6047 |
| The invoice control number is not valid | 0x6090 |
| Totalizers are damaged | 0x60F0 |
| No data in given range | 0x60F1 |
| Damaged start record range | 0x60F2 |
| Corrupted end-of-range record | 0x60F3 |
| Bad sequence of orders | 0x6100 |
| Receipt is open | 0x6101 |
| The invoice is open | 0x6102 |
| No sales item | 0x6103 |
| Not allowed in the sales phase | 0x6104 |
| Receipt is already summarized | 0x6105 |
| Receipt is not summarized | 0x6106 |
| Receipt in the payment phase | 0x6107 |
| A cancellation or correct summary is required | 0x6108 |
| Comment is not allowed at this time | 0x6109 |
| Receipt is not open | 0x610A |
| Too many sales lines | 0x610B |
| Application report open | 0x6110 |
| Application report closed | 0x6111 |
| Format:ted report from the application open | 0x6120 |
| Format: report from application - wrong line sequence | 0x6121 |
| The formatted report from the application is not open | 0x6122 |
| Commodity test opened | 0x6130 |
| Commodity test not open | 0x6131 |
| The daily report is open | 0x6160 |
| The interim report is open | 0x6161 |
| Open VAT rate report | 0x6162 |
| Open service report | 0x6163 |
| Imprinting is in progress | 0x6164 |
| New time and date is being printed | 0x6165 |
| A new header is being printed | 0x6166 |
| New VAT rates are being printed out | 0x6167 |
| An invoice verification printout is in progress | 0x6168 |
| Reports X is running | 0x6169 |
| The totalizer report is being printed | 0x616A |
| Prints a report when the power is on | 0x616B |
| It is not possible to print a duplicate of a daily report | 0x616D |
| You need to close the sales period | 0x616E |
| A printable basis report is being printed | 0x616F |
| The order is not allowed in this printout | 0x6171 |
| You can not print a barcode at this point, fiscal constraint | 0x6175 |
| Receipt when handling returnable packaging | 0x6176 |
| Receipt open | 0x6177 |
| Setting VAT rates is not allowed - totalizers restored from flash memory | 0x6179 |
| Period of sale open, surgery is not allowed | 0x6180 |
| Fiscal day closed, operation not allowed | 0x6181 |
| Block EJ closed | 0x6182 |
| In the first place, you should dump the electronic data or send information about failed data archiving | 0x6183 |
| You must close the day | 0x6189 |
| Element already defined | 0x6192 |
| Wrong mode of receipt or invoice printing | 0x6200 |
| Invalid parameter | 0x6201 |
| Too long string | 0x6202 |
| Too short string | 0x6203 |
| Unauthorized sign | 0x6204 |
| Illegal word | 0x6205 |
| Empty string | 0x6206 |
| Invalid service report type | 0x6207 |
| Not allowed: date / time | 0x6208 |
| Incorrect product name on WZ receipt | 0x6209 |
| Incorrect product name | 0x620A |
| This printout is blocked | 0x620B |
| Bad type of negative position | 0x620C |
| Bad type of rebate or raise | 0x620D |
| Bad Payment ID | 0x620E |
| Too many free texts | 0x620F |
| Wrong number of BAR CODE characters | 0x6210 |
| Bad sign in BAR CODE | 0x6211 |
| Bad bar code format | 0x6212 |
| The selected barcode is not supported | 0x6213 |
| Barcode error, change the parameters and send the order again | 0x6214 |
| Unknown order - sales application error | 0x62E0 |
| Printer busy with another command | 0x62F0 |
| No access to PF | 0x6400 |
| Error writing to PF | 0x6401 |
| Error reading from PF | 0x6402 |
| Line checksum error | 0x6403 |
| Data checksum error | 0x6404 |
| Missing data | 0x6405 |
| Incorrect handle for PF | 0x6407 |
| No room for another VAT record | 0x6408 |
| PF not connected or formatted | 0x6409 |
| The record structure in fiscal memory is not correct | 0x640A |
| Erroneous attempt to read a record from a buffer in RAM | 0x640B |
| No space for temporary data to write | 0x640C |
| Invalid country code or printer model saved in fiscal memory | 0x640D |
| The number of saved headers has reached a maximum | 0x640E |
| Fatal error fiscal memory | 0x640F |
| Fiscal memory is not consistent with the data in the framework. Delete the frame memory | 0x6410 |
| Important records in fiscal memory are damaged | 0x6411 |
| Error playing totalizers from fiscal memory. | 0x6412 |
| Not found | 0x6413 |
| Type is not supported | 0x6414 |
| Fiscal memory mentioned | 0x6415 |
| EJ must be on at all times | 0x7001 |
| EJ can not be turned off | 0x7002 |
| Can not open the day, all EJ blocks are used, please save EJ data to optical media | 0x7003 |
| Can not open the day, too little space in the EJ flash memory, please save EJ data to optical media | 0x7004 |
| You can not close the day, all EJ blocks are used, please save EJ data to optical media | 0x7005 |
| EJ server is not ready | 0x7006 |
| The EJ block was not closed or dropped | 0x7007 |
| Erroneous block number EJ | 0x7008 |
| The EJ block is not closed | 0x7009 |
| EJ - insufficient memory | 0x700A |
| EJ - damaged data | 0x700B |
| Recording to EJ is not allowed | 0x700C |
| EJ: no memory space | 0x700D |
| First, the MD5 value must be verified | 0x700E |
| Invalid SHA value for EJ data, please dump the data again | 0x700F |
| The media is not signed | 0x7010 |
| Format: error | 0x7201 |
| Data error | 0x7202 |
| Another cashier model | 0x7203 |
| Damaged data | 0x7204 |
| No card | 0x7205 |
| Write verification error | 0x7206 |
| No free space on the card | 0x7207 |
| Card from another cashier | 0x7208 |
| The media is closed | 0x7209 |
| The media is formatted and contains EJ files | 0x720A |
| Error formatting EJ media | 0x720B |
| Error creating media structure | 0x720C |
| Can not close the media | 0x720D |
| Unknown print type | 0x720E |
| The requested receipts were not found | 0x720F |
| The requested daily report was not found | 0x7210 |
| The requested fiscal day was not found | 0x7211 |
| You can not perform a print job | 0x7212 |
| Can not open file | 0x7213 |
| Unable to close the file | 0x7214 |
| Out of bill number | 0x7215 |
| Error in file name | 0x7216 |
| Error while dump history | 0x7217 |
| Error while dropping an EJ block. The block is not open | 0x7218 |
| Error while verifying the media | 0x7219 |
| Media verification is not possible | 0x721A |
| Internal uninitialized server | 0x721B |
| Inner media Busy: record data | 0x721C |
| Inner media Busy: verification of data | 0x721D |
| Inner media Busy: printing data | 0x721E |
| Stack. Incorrect type size | 0x7221 |
| Unallocated memory for the stack | 0x7222 |
| The stack is empty | 0x7223 |
| Stack overflowed | 0x7224 |
| Empty file name | 0x7225 |
| The file is not open | 0x7226 |
| No memory allocated for file buffer | 0x7227 |
| You can not undo a character | 0x7228 |
| No data to write to file | 0x7229 |
| End of file | 0x722A |
| Operation not allowed | 0x722B |
| Unrecognized part of XML | 0x722C |
| Unauthorized sign | 0x722D |
| Invalid closing element name | 0x722E |
| Inconsistent number of openings and closures of elements | 0x722F |
| Found element | 0x7230 |
| Item not found | 0x7231 |
| Correct file termination | 0x7232 |
| The directory was not read | 0x7240 |
| Data dump is not initialized | 0x7241 |
| The requested printout is on another medium, detailed information on the printout | 0x7250 |
| I / O error | 0x7601 |
| Invalid xml data | 0x7602 |
| Invalid xml format | 0x7603 |
| Exceeded restrictions on xml processing | 0x7604 |
| Incorrect operation on xml data | 0x7605 |
| Error opening file | 0x7701 |
| Error closing file | 0x7702 |
| Error reading from file | 0x7703 |
| Error writing to file | 0x7704 |
| Error while moving file position | 0x7705 |
| Error trimming file size | 0x7706 |
| Error selecting file open mode | 0x7707 |
| There is no such file system | 0x7708 |
| Error while syncing file | 0x7709 |
| Error creating directory | 0x770A |
| Error creating file | 0x770B |
| Error deleting | 0x770C |
| RAM defective | 0x8000 |
| RTC damaged | 0x8001 |
| RAM cleared | 0x8002 |
| RTC not set | 0x8003 |
| Client display is not connected | 0x8004 |
| The display driver is already open | 0x8006 |
| Low power supply, you can not print or save data to PF | 0x8007 |
| Service worker jumper attached | 0x8008 |
| The printer is disconnected | 0x8009 |
| RAM battery voltage and RTC is too low | 0x800A |
| We have found problems with the fiscal module | 0x800B |
| Flash Programming Jumper Error | 0x800C |
| Boot Source Error | 0x800D |
| No FLASH or FLASH memory is too small | 0x800E |
| Jumper Clear All set | 0x8010 |
| Clear RAM jumper set up | 0x8011 |
| The printer is in standalone mode, please exit the menu | 0x8012 |
| Unsupported printing station | 0x8100 |
| No paper (receipt station) | 0x8101 |
| No paper (copy station) | 0x8102 |
| Open the printer cover | 0x8105 |
| Paper jam | 0x8106 |
| Overheating of the printhead | 0x8107 |
| Cutter error | 0x8108 |
| No answer to status question | 0x8109 |
| Raised printhead | 0x810A |
| The fatal error of the printing mechanism | 0x810B |
| Printer locked - necessary service intervention | 0x810C |
| Invalid display mode | 0x8200 |
| No access to the display, fiscal restrictions | 0x8201 |
| Graphics not supported | 0x8300 |
| Undefined graphics | 0x8301 |
| Graphics is already defined | 0x8302 |
| The graphics loading session has not been opened | 0x8303 |
| The graphics loading session is already open | 0x8304 |
| Image number beyond the acceptable range | 0x8305 |
| Image size beyond acceptable range | 0x8306 |
| The horizontal dimension of the graphic beyond the acceptable range | 0x8307 |
| The vertical dimension of the graphic beyond the acceptable range | 0x8308 |
| Too long graphic name | 0x8309 |
| Too many data | 0x830A |
| Too little data | 0x830B |
| No memory space | 0x830C |
| Button test failed | 0x9000 |
| Clock test failed | 0x9001 |
| Drawer test failed | 0x9002 |
| LED test failed | 0x9003 |
| Port test failed | 0x9004 |
| Power failure test | 0x9005 |
| Printer test failed | 0x9006 |
| Sensor test failed | 0x9007 |
| Hardware test failed | 0x9008 |
| Internal test failed | 0x9009 |
| Anesthesia test failed | 0x900A |
| Flash test failed | 0x900B |
| The test is not implemented | 0x9080 |
| Incorrect transmission speed | 0xA000 |
| Incorrect protocol ID | 0xA001 |
| Incorrect code page ID | 0xA002 |
| CFG: not allowed in fiscal mode | 0xA003 |
| Too much correction | 0xB002 |
| One correct time is required to determine the correction | 0xB003 |
| Correction detected the correct operation of the RTC | 0xB004 |
| There was too little time to make an adjustment | 0xB005 |
| The current time is winter time | 0xB011 |
| The current time is summer time | 0xB012 |
| Time change not allowed | 0xB013 |
| Time change allowed | 0xB014 |

Example

|  |
| --- |
| ESC +e |
| ESC r 0x00 0x02 0x61 0x81 |

### 4.13.8 Error description readout (English)

Format

|  |
| --- |
| ESC + p |

Answear

ESC r MSB LSB <data>

where:

* <data> - error description in English language

Example

|  |
| --- |
| ESC +p |
| ESC r 0x00 0x0A RAM erased |

### 4.13.9 Error description readout (Polish)

Format

|  |
| --- |
| ESC + o |

Answear

ESC r MSB LSB <data>

where:

* <data> - error description in Polish language

Example

|  |
| --- |
| ESC +o |
| ESC r NUL 0x34 doba fiskalna zamknięta, operacja no jest dozwolona |

# 5 DETECT protocol description

The printer, after receiving a UDP frame on the default port 6000 with the appropriate command, sends specific data via UDP to the address of the computer from which it received the command.

The printer responds to this protocol with questions addressed specifically to it, as well as to all printers (as broadcast).

General command format::

* <command>[:<optional\_parameter] LF

Printer response in XML-like format.

* Printer search - Command: "who\_are\_you" LF
* Response:
  + "<xml><device type="TAURUS ONLINE" version="2.00.0000" country="PL"
  + serial="serial\_number"
  + govserial="unique\_number"
  + nip="Tax\_ID\_number"
  + terminal=”terminal\_ID” /></xml>" LF
* Config read - Command: "get\_config:"<parameter> LF
  + xml><param name="parameter\_name" value="parameter\_value"</xml> LF
* Response:
  + <Properities read - Command: "get\_capb:"<parameter\_name> LF
* Response:
  + <xml><capability name="parameter\_name"value="parameter\_value"</xml> LF

# 6 Communication between printer and DVR

## 6.1 Assumptions

Because not every sales application is able to send text messages to the so-called DVR (Digital Video Recorder), the printer implemented the sending of messages by the printer to the DVR. The sales application sending a command to the printer sends the corresponding message via the printer to the DVR. Not all orders are handled this way by the printer, but those that are important. These are orders for the receipt: opening, closing, cancellation, discount, sales line, and the order to send any text message. Each text message should be limited by tags recognized by the DVR. These are the words "start" and "stop". Everything between these tags, along with them, is displayed by the DVR. Eg the entire receipt will be displayed between the tags. There may also be any text message sent by the sales application to the printer.

Example:

|  |
| --- |
| *start Trans:000018 S POS:001 C:Jan Kowalski*  *CHLEB RAZOWY 1,00 szt \* 2,20 zl 2,20*  *SUMA PLN 2,20*  *stop DT:2012-04-13 08:47:24* |

Contains:

* Transaction number „Trans:”,
* Sale signature „S”,
* Printer number „POS”,
* Cashiers ID „Jan Kowalski”,
* Sale line,
* sum,
* „Stop” signature with date and time.

The following is an example of showing data from the receipt on the monitor including the discount and text of any message. Any message we send via the command:

|  |
| --- |
| ESC MFB L m M 'dowolny komunikat' ESC MFE |

If it is not included between the "start" and "stop" tags, as in the following example.

For example, you must send constraint tags:

|  |
| --- |
| ESC MFB L m B ESC MFE  ESC MFB L m M 'dowolny komunikat' ESC MFE  ESC MFB L m E ESC MFE |

|  |
| --- |
| *start Trans:000021 S POS:001 C:Jan Kowalski*  *TOWAR-A 1,00 szt \* 1,00 zl 1,00*  *PODSUMA 1,00*  *UPUST 10,00%*  *PODSUMA 0,90*  *dowolny komunikat*  *SUMA PLN 0,90*  *stop DT:2012-04-13 09:04:39* |

## 6.2 Configuration

The sending functionality is fully configurable in the printer by setting parameters and enabling or disabling uploads.

### 6.2.1 net.monitoring

Command:

|  |
| --- |
| ESC MFB % s ESC MFB1 'net.monitoring' LF 'x' ESC MFE |

x – 0 – monitoring off, 1 – monitoring on (default 0)

### 6.2.2 net.monitoring.ip

Command:

|  |
| --- |
| ESC MFB % s ESC MFB1 'net.monitoring.ip' LF 'xxx.yyy.zzz.vvv' ESC MFE |

xxx.yyy.zzz.vvv – DVR’s IP address (default 192.168.103.14)

### 6.2.3 net.monitoring.port

Command:

|  |
| --- |
| ESC MFB % s ESC MFB1 'net.monitoring.port' LF 'xxxxx' ESC MFE |

xxxxx – The port on which the DVR is expected to connect (default 14001)

### 6.2.4 net.monitoring.protocol

Command:

|  |
| --- |
| ESC MFB % s ESC MFB1 'net.monitoring.protocol' LF 'x' SC MFE |

x – Message Protocol Id (currently only text message protocol, default is 1)

### 6.2.5 net.monitoring.txt.startstr

Command:

|  |
| --- |
| ESC MFB % s ESC MFB1 'net.monitoring.txt.startstr' LF 'xxxx' ESC MFE |

xxxx – Mark the start of messages to display (default "start”)

### 6.2.6 net.monitoring.txt.stopstr

Command:

|  |
| --- |
| ESC MFB % s ESC MFB1 'net.monitoring.txt.stopstr' LF 'xxxx' ESC MFE |

xxxx – Message end tag to display (default "stop”)

### 6.2.7 net.monitoring.txt.linewidth

Command:

|  |
| --- |
| ESC MFB % s ESC MFB1 'net.monitoring.txt.linewidth' LF 'xx' ESC MFE |

xx – numer of characters in line (default 52)

After sending the configuration parameters to the printer, confirm them with the command

|  |
| --- |
| ESC MFB '%c' ESC MFB1 's' ESC MFE |

# 7 Known problems

**SYMPTOMS**

The printer does not respond to a command sent via the USB port using Windows 7. Sending another command causes the previous command to be executed. The situation does not exist on Windows XP and Linux systems.

**REASON**

The USBCDC driver in Windows 7 does not correctly send data to the USB port if the number of characters entered in the fifo port queue is divisible by 32

**COUNTERMEASURE**

If you use the MF2 library, upgrade to version 9.77 or later and set the parameter in the configuration file: WIN7CACHE = 1 If the sales application does not use libraries, then send the first non-significant character eg 0x00 to the printer if the length of the sent command is divisible by 32

END