PROTOCOL SPECIFICATION

POSNET

in

THERMAL FV EJ 1.01

THERMAL HS FV EJ 1.01

v 009

Contents

Protocol general description

Protocol frame structure

field	*value*	*remarks*
STX	02h	The first character in the frame
cmd_id	Command mnemonic	Command Id
TAB	09h	Tab character. Present after each command id or parameter.

<div align="center">...</div>

param_id	Double character parameter mnemonic	Parameter Id precedes each parameter. The order of parameters is random in each sequence.
Parameter value	Text or decimal number	Number of parameters in a sequence is dependent on a command
TAB	09h	After each parameter tab character occurs
TOKEN	@XXXX	Optional field. Token begins with the character @ (40h) and occurs in form of four decimal numbers. It may occur in random place between cmd_id and #CRC16
TAB	09h	After token, tab character should be sent.

<div align="center">...</div>

#	'#' character	A character preceding check sum
CRC16	Hexadecimal number	Check sum calculated on the basis of CRC16-CCITT algorithm.
ETX	03h	Last character in the frame (frame

		delimiter)

Check sum

Check sum of a sequence is calculated using CRC16-CCITT algorithm. STX, ETX, '#' signs and the sign preceding the check sum are not taken into consideration while calculating the check sum.

Example of check sum calculation code:

```
unsigned char crc16htab[] = {
        0x00, 0x10, 0x20, 0x30, 0x40, 0x50, 0x60, 0x70,
        0x81, 0x91, 0xa1, 0xb1, 0xc1, 0xd1, 0xe1, 0xf1,
        0x12, 0x02, 0x32, 0x22, 0x52, 0x42, 0x72, 0x62,
        0x93, 0x83, 0xb3, 0xa3, 0xd3, 0xc3, 0xf3, 0xe3,
        0x24, 0x34, 0x04, 0x14, 0x64, 0x74, 0x44, 0x54,
        0xa5, 0xb5, 0x85, 0x95, 0xe5, 0xf5, 0xc5, 0xd5,
        0x36, 0x26, 0x16, 0x06, 0x76, 0x66, 0x56, 0x46,
        0xb7, 0xa7, 0x97, 0x87, 0xf7, 0xe7, 0xd7, 0xc7,
        0x48, 0x58, 0x68, 0x78, 0x08, 0x18, 0x28, 0x38,
        0xc9, 0xd9, 0xe9, 0xf9, 0x89, 0x99, 0xa9, 0xb9,
        0x5a, 0x4a, 0x7a, 0x6a, 0x1a, 0x0a, 0x3a, 0x2a,
        0xdb, 0xcb, 0xfb, 0xeb, 0x9b, 0x8b, 0xbb, 0xab,
        0x6c, 0x7c, 0x4c, 0x5c, 0x2c, 0x3c, 0x0c, 0x1c,
        0xed, 0xfd, 0xcd, 0xdd, 0xad, 0xbd, 0x8d, 0x9d,
        0x7e, 0x6e, 0x5e, 0x4e, 0x3e, 0x2e, 0x1e, 0x0e,
        0xff, 0xef, 0xdf, 0xcf, 0xbf, 0xaf, 0x9f, 0x8f,
        0x91, 0x81, 0xb1, 0xa1, 0xd1, 0xc1, 0xf1, 0xe1,
        0x10, 0x00, 0x30, 0x20, 0x50, 0x40, 0x70, 0x60,
        0x83, 0x93, 0xa3, 0xb3, 0xc3, 0xd3, 0xe3, 0xf3,
        0x02, 0x12, 0x22, 0x32, 0x42, 0x52, 0x62, 0x72,
        0xb5, 0xa5, 0x95, 0x85, 0xf5, 0xe5, 0xd5, 0xc5,
        0x34, 0x24, 0x14, 0x04, 0x74, 0x64, 0x54, 0x44,
        0xa7, 0xb7, 0x87, 0x97, 0xe7, 0xf7, 0xc7, 0xd7,
        0x26, 0x36, 0x06, 0x16, 0x66, 0x76, 0x46, 0x56,
        0xd9, 0xc9, 0xf9, 0xe9, 0x99, 0x89, 0xb9, 0xa9,
        0x58, 0x48, 0x78, 0x68, 0x18, 0x08, 0x38, 0x28,
        0xcb, 0xdb, 0xeb, 0xfb, 0x8b, 0x9b, 0xab, 0xbb,
        0x4a, 0x5a, 0x6a, 0x7a, 0x0a, 0x1a, 0x2a, 0x3a,
        0xfd, 0xed, 0xdd, 0xcd, 0xbd, 0xad, 0x9d, 0x8d,
        0x7c, 0x6c, 0x5c, 0x4c, 0x3c, 0x2c, 0x1c, 0x0c,
        0xef, 0xff, 0xcf, 0xdf, 0xaf, 0xbf, 0x8f, 0x9f,
        0x6e, 0x7e, 0x4e, 0x5e, 0x2e, 0x3e, 0x0e, 0x1e};
unsigned char crc16ltab[] = {
        0x00, 0x21, 0x42, 0x63, 0x84, 0xa5, 0xc6, 0xe7,
        0x08, 0x29, 0x4a, 0x6b, 0x8c, 0xad, 0xce, 0xef,
        0x31, 0x10, 0x73, 0x52, 0xb5, 0x94, 0xf7, 0xd6,
        0x39, 0x18, 0x7b, 0x5a, 0xbd, 0x9c, 0xff, 0xde,
        0x62, 0x43, 0x20, 0x01, 0xe6, 0xc7, 0xa4, 0x85,
        0x6a, 0x4b, 0x28, 0x09, 0xee, 0xcf, 0xac, 0x8d,
        0x53, 0x72, 0x11, 0x30, 0xd7, 0xf6, 0x95, 0xb4,
        0x5b, 0x7a, 0x19, 0x38, 0xdf, 0xfe, 0x9d, 0xbc,
        0xc4, 0xe5, 0x86, 0xa7, 0x40, 0x61, 0x02, 0x23,
        0xcc, 0xed, 0x8e, 0xaf, 0x48, 0x69, 0x0a, 0x2b,
        0xf5, 0xd4, 0xb7, 0x96, 0x71, 0x50, 0x33, 0x12,
        0xfd, 0xdc, 0xbf, 0x9e, 0x79, 0x58, 0x3b, 0x1a,
        0xa6, 0x87, 0xe4, 0xc5, 0x22, 0x03, 0x60, 0x41,
        0xae, 0x8f, 0xec, 0xcd, 0x2a, 0x0b, 0x68, 0x49,
        0x97, 0xb6, 0xd5, 0xf4, 0x13, 0x32, 0x51, 0x70,
        0x9f, 0xbe, 0xdd, 0xfc, 0x1b, 0x3a, 0x59, 0x78,
        0x88, 0xa9, 0xca, 0xeb, 0x0c, 0x2d, 0x4e, 0x6f,
        0x80, 0xa1, 0xc2, 0xe3, 0x04, 0x25, 0x46, 0x67,
        0xb9, 0x98, 0xfb, 0xda, 0x3d, 0x1c, 0x7f, 0x5e,
        0xb1, 0x90, 0xf3, 0xd2, 0x35, 0x14, 0x77, 0x56,
        0xea, 0xcb, 0xa8, 0x89, 0x6e, 0x4f, 0x2c, 0x0d,
        0xe2, 0xc3, 0xa0, 0x81, 0x66, 0x47, 0x24, 0x05,
        0xdb, 0xfa, 0x99, 0xb8, 0x5f, 0x7e, 0x1d, 0x3c,
        0xd3, 0xf2, 0x91, 0xb0, 0x57, 0x76, 0x15, 0x34,
        0x4c, 0x6d, 0x0e, 0x2f, 0xc8, 0xe9, 0x8a, 0xab,
        0x44, 0x65, 0x06, 0x27, 0xc0, 0xe1, 0x82, 0xa3,
        0x7d, 0x5c, 0x3f, 0x1e, 0xf9, 0xd8, 0xbb, 0x9a,
        0x75, 0x54, 0x37, 0x16, 0xf1, 0xd0, 0xb3, 0x92,
        0x2e, 0x0f, 0x6c, 0x4d, 0xaa, 0x8b, 0xe8, 0xc9,
        0x26, 0x07, 0x64, 0x45, 0xa2, 0x83, 0xe0, 0xc1,
        0x1f, 0x3e, 0x5d, 0x7c, 0x9b, 0xba, 0xd9, 0xf8,
        0x17, 0x36, 0x55, 0x74, 0x93, 0xb2, 0xd1, 0xf0};

unsigned char hi=0, lo=0, index;
const char *s= "Ala ma kota.";
```

```
printf ( "crc od '%s' wynosi: ", s);
for (s;*s;s++)
{       index = hi ^ *s;
        hi = lo ^ crc16htab[index];
        lo =     crc16ltab[index];
}
printf ( "%04X", (hi << 8) | lo  );
```

Printer response

Standard printer response in case of accepting a correct sequence:

[STX]cmd_id[TAB]#CRC16[ETX]

Printer response in case of accepting an incorrect sequence or execution error :

[STX]cmd_id[TAB]?nnnn#CRC16[ETX]

nnnn – error number, decimal number

Frame errors

Frame construction of printer response to receiving erroneous protocol frame:

STX ERR TAB [@TOKEN TAB] ?ERR_NO TAB [cmCMD_ID TAB [fdFIELD_NAME TAB]] CRC16 ETX

Description:

STX – first character in the frame (02h)

ERR – „ERR" notice, a frame sent by the printer as a response to erroneous frame

TAB – tab (09h), separator of frame fields

@TOKEN – token always preceded by '@' character (optional field)

?, cm, fd – frame field names, preceding sent data.

ERR_NO – error number. A list of errors is placed in the last chapter of specification.

CMD_ID – id of a recognized command in which the error has been found (optional field)

FIELD_NAME – field name with recognized error (optional field)

CRC – control sum

ETX – last character in the frame (03h)

Data types

Num. - decimal numerical value. Separator of fractional part: „." or „," (comma or full stop).
Alphanum – alphanumerical value sent using ASCII characters
Date – date in format yyyy-mm-dd. „-" character may be replaced by: '.' and '/'
Date and time - yyyy-mm-dd,hh:mm. „," character may be replaced by: space and ';'.
BOOL – Bool type value. May have the value of: 0,1 or T,N or Y,N or t,n or y,n.

Command realization mode

The device has two types of realizing commands: synchronous and asynchronous.

Synchronous mode – in this mode all protocol command can be sent. Sent commands are registered

in receive buffer and performed one after another. Response to a command is sent back after its realization.

Asynchronous mode – in this mode only selected protocol commands may be sent (sprn, sdev). Commands sent in this ode are realized immediately. Responses to those commands are also sent back on a current basis. A command should be preceded with '!' character in order to perform it in asynchronous mode.

Control sequences

[rtcset] Date and time settings

Command Id:
rtcset

Input parameters:

Name	Description	Required	Type	Remarks
da	Date and time	YES	Date and time	Limitations in fiscal mode operation.

Device response:
standard

Remarks:
In fiscal mode the scope of clock regulation is limited to 1 hour, time can be changed once a day.
Availability in read only mode: NO

Example:
[STX]rtcset[TAB]da2006-10-20;11:49[TAB]#CRC16[ETX]

Printout:

```
|         P O S N E T          |       |         P O S N E T          |
| D R U K A R K A   F I S K A L N A  | | F I S C A L   P R I N T E R    |
|------------------------------------| |------------------------------------|
|         NIP 000-000-00-01          | |         NIP 000-000-00-01          |
|2006-10-49                        8| |2006-10-49                        8|
|      N I E F I S K A L N Y          | |      N O N - F I S C A L            |
|                                    | |                                    |
|      PROGRAMOWANIE ZEGARA          | |        CLOCK PROGRAMMING           |
|                                    | |                                    |
|Zegar przed zmianą:   2006-10-20,11:11| |Clock before change:   2006-10-20,11:11|
|Zegar po zmianie:     2006-10-19,11:49| |Clock after change:    2006-10-19,11:49|
|                                    | |                                    |
|      N I E F I S K A L N Y          | |      N O N - F I S C A L            |
|   #y12      Baltazar      11:18 |   |   #y12      Baltazar      11:18 |
|           12345678                 | |           12345678                 |
```

[rtcget] Date and time reading

Command id:
rtcget

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
da	Date and time	-	Date and time	

Remarks:
Availability in read only mode: YES

Response example:
[STX]rtcget[TAB]da2006-10-20;11:49[TAB]#CRC16[ETX]

Example:
[STX]rtcget[TAB]#CRC16[ETX]

[vatset] VAT rates programming

Command Id:
vatset

Input parameters:

Name	Description	Required	Type	Remarks
va	VAT A rate value in per cent	NO	num.	Lack of parameter means an inactive rate. The correct percent value is between (0 – 99.99)
vb	VAT B rate value in per cent	NO	num.	
vc	VAT C rate value in per cent	NO	num.	
vd	VAT D rate value in per cent	NO	num.	
ve	VAT E rate value in per cent	NO	num.	
vf	VAT F rate value in per cent	NO	num.	
vg	VAT G rate value in per cent	NO	num.	
da	Current date	NO	date	Date is verified with current settings of system clock. In case of lack of parameter, the user has to confirm the date using the keyboard.

Device response:
standard

Remarks:
VAT value 100 - tax exempted rate.
VAT value 101 – inactive rate.
There is no possibility to program all rates as inactive rates.
Availability in read only mode: NO

Example:
[STX]vatset[TAB]va22[TAB]vb7,00[TAB]vg100[TAB]#CRC16[ETX]

Printout example:
```
|          P O S N E T          |        |              P O S N E T            |
|  D R U K A R K A   F I S K A L N A  |   |     F I S C A L   P R I N T E R     |
|-------------------------------------|   |-------------------------------------|
|          NIP 000-000-00-01          |   |          NIP 000-000-00-01          |
|2004-04-02                         9|    |2004-04-02                         9|
|        N I E F I S K A L N Y         |   |        N O N - F I S C A L          |
|  Z m i a n a   s t a w e k   P T U  |   |  C h a n g e   o f   V A T   r a t e s  |
|Stare PTU:                           |   |Former VAT:                          |
|PTU A                       22,00 %|     |VAT A                       22,00 %|
|PTU B                        7,00 %|     |VAT B                        7,00 %|
```

```
|PTU C                    3,00 %|    |VAT C                    3,00 %|
|PTU D                      ---|    |VAT D                      ---|
|PTU E                      ---|    |VAT E                      ---|
|PTU F                    0,00 %|    |VAT F                    0,00 %|
|G                    SP.ZW.PTU|    |G                    VAT.EX.PTU|
|- - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - |
|Nowe PTU:                      |    |New VAT:                       |
|PTU A                   22,00 %|    |VAT A                   22,00 %|
|PTU B                    7,00 %|    |VAT B                    7,00 %|
|PTU C                    3,00 %|    |VAT C                    3,00 %|
|PTU D                   12,00 %|    |VAT D                   12,00 %|
|PTU E                      ---|    |VAT E                      ---|
|PTU F                    0,00 %|    |VAT F                    0,00 %|
|G                    SP.ZW.PTU|    |G                    SP.ZW.PTU|
|      N I E F I S K A L N Y     |    |      N O N - F I S C A L       |
|   #001      KIEROWNIK   11:22 |    |   #001      MANAGER     11:22 |
|             12345678          |    |             12345678          |
```

[vatget] VAT rates reading

Command Id:
vatget

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
va	VAT A rate value in per cent	-	num.	Correct percent value of a rate is included between (0 – 99.99) Seven rates are always sent back. 101,00 – inactive rate 100,00 – exempted rate
vb	VAT B rate value in per cent	-	num.	
vc	VAT C rate value in per cent	-	num.	
vd	VAT D rate value in per cent	-	num.	
ve	VAT E rate value in per cent	-	num.	
vf	VAT F rate value in per cent	-	num.	
vg	VAT G rate value in per cent	-	num.	

Remarks:
Availability in read only mode: YES

Response example:
[STX]vatget[TAB]va22,00[TAB]vb7,00[TAB]vc101,00[TAB]vd101,00[TAB]ve101,00[TAB]vf101,00[TAB]vg100,00[TAB]#CRC16[ETX]

Example:
[STX]vatget[TAB]#CRC16[ETX]

[hdrset] Header programming

Command Id:

hdrset

Input parameters:

Name	Description	Required	Type	Remarks
tx	Header Content	yes	Alphanum.	It may contain formatting characters.

Device response:

standard

Remarks:

Maximum header length – 500 characters (including formatting characters).

Formatting characters:

&b   – bold font
&c   – text centering
&h   – double height
&i   – italics
&u   – underlined font
&w   – double width

In the current version &w and &b are suitable for the same text format.

'&' character is obtained by &&.

Formatting characters should be placed at the beginning of the line. They are valid until the end of line. In one line up to three formatting characters can be placed. The maximum line length is 40 characters – for standard, double height, italics and underlined characters. For double width characters the maximum line length is 20 characters. LF character (0Ah) separates the lines.

In one line up to four formatting characters can be used.

Availability in read only mode: NO

Example:

[STX]hdrset[TAB]tx&cSklep spożywczy[LF]&c&b&iKONFITURA[TAB]#CRC16[ETX]

Printout:

```
|H H H H H H H H H H H H H H H H H H |      |H H H H H H H H H H H H H H H H H H |
|I I I I I I I I I I I I I I I I I I I|      |I I I I I I I I I I I I I I I I I I I|
|3333333333333333333333333333333333333|      |3333333333333333333333333333333333333|
|4444444444444444444444444444444444444|      |4444444444444444444444444444444444444|
|5555555555555555555555555555555555555|      |5555555555555555555555555555555555555|
|         NIP 000-000-00-01          |      |         NIP 000-000-00-01          |
|2004-04-02                        11|      |2004-04-02                        11|
|       N I E F I S K A L N Y         |      |       N O N - F I S C A L          |
|    PROGRAMOWANIE NAGŁÓWKA           |      |      HEADER PROGRAMMING            |
|          P O S N E T               |      |          P O S N E T               |
```

```
|      N I E F I S K A L N Y      |        |      N O N - F I S C A L        |
|   #001      KIEROWNIK    11:27 |        |   #001      MANAGER      11:27 |
|             12345678           |        |             12345678           |
```

```
|      N I E F I S K A L N Y      |        |      N O N - F I S C A L        |
|   #001      KIEROWNIK    11:27 |        |   #001      MANAGER      11:27 |
|             12345678           |        |             12345678           |
```

[hdrget] Header reading

Command Id:
hdrget

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
tx	Header content	-	Alphanum.	It can contain formatting characters.

Response example:
[STX]hdrget[TAB]tx&cSklep spożywczy[LF]&c&b&iKONFITURA[TAB]#CRC16[ETX]

Remarks:
Formatting characters:
&b   – bold font
&c   – text centering
&h   – double height
&i   – italics
&u   – underlined font
&w   – double width

In the current version &w and &b are suitable for the same text format.
'&' character is obtained by &&.
Formatting characters should be placed at the beginning of the line. They are valid until the end of the line. Maximum line length is 40 characters. LF character (0Ah) separates the lines.
Availability in read only mode: YES

Example:
[STX]hdrget[TAB]#CRC16[ETX]

[ftrinfoget] Reading of information lines in footer

Command Id:
ftrinfoget

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
tx	Content of information lines in footer. Lines are separated by LF character (0Ah).	YES	Alphanum.	Regulations allow printing 3 additional information lines at the end of a receipt.

Response example:
[STX]ftrinfoget[TAB]@7654[TAB]tx&cDZIĘKUJEMY[LF]&cZAPRASZAMY[TAB]]#CRC16[ETX]

Remarks:
Formatting characters:
&b   – bold font
&c   – text centering
&h   – double height
&i   – italics
&u   – underlined font
&w   – double width

In the current version &w and &b are suitable for the same text format.
'&' character is obtained by &&.
Formatting characters should be placed at the beginning of the line. They are valid until the end of the line. Maximum line length is 40 characters. LF character (0Ah) separates the lines.
Availability in read only mode: YES

Example:
[STX]ftrinfoget[TAB]#CRC16[ETX]

[ftrinfoset] Programming information lines in footer

Command Id:
ftrinfoset

Input parameters:

Name	Description	Required	Type	Remarks
tx	Content of information lines in footer	YES	Alphanum.	Regulations allow printing 3 additional information lines at the end of a receipt.
lb	Print on all receipts? false – only on the following one true – on all receipts	NO	BOOL	Default false.

Device response:
standard

Remarks:
Formatting characters:
&b   – bold font
&c   – text centering
&h   – double height
&i   – italics
&u   – underlined font
&w   – double width

In the current version &w and &b are suitable for the same text format.
'&' character is obtained by **&&**.
Formatting characters should be placed at the beginning of the line. They are valid until the end of the line. Maximum line length is 40 characters. LF character (0Ah) separates the lines.
In one line up to four formatting characters can be used.
Availability in read only mode: NO

Example:
[STX]ftrinfoset[TAB]txDZIĘKUJEMY[LF]ZAPRASZAMY PONOWNIE[TAB]#CRC16[ETX]

[fiscalize] Fiscalization

Command Id:

fiscalize

Input parameters:

Name	Description	Required	Type	Remarks
ni	VAT ID	YES	Alphanum.	Max. length of 20 characters

Device response:

standard

Remarks:

Availability in read only mode: NO

Example:

[STX]fiscalize[TAB]ni123-456-78-90[TAB]#CRC16[ETX]

Printout:

```
|        P O S N E T         |      |        P O S N E T         |
| D R U K A R K A   F I S K A L N A |      | F I S C A L   P R I N T E R       |
|-----------------------------------|      |-----------------------------------|
|                                   |      |                                   |
|2007-02-19                      44|      |2007-02-19                      44|
|       N I E F I S K A L N Y        |      |        N O N - F I S C A L         |
|AKTUALNE STAWKI PTU:               |      |CURRENT VAT RATES:                 |
|PTU A                     22,00 %|      |VAT A                     22,00 %|
|PTU B                      7,00 %|      |VAT B                      7,00 %|
|PTU C                      3,00 %|      |VAT C                      3,00 %|
|PTU D                      0,25 %|      |VAT D                      0,25 %|
|G                      SP.ZW.PTU|      |G                        VAT EX.|
|- - - - - - - - - - - - - - - - -  |      |- - - - - - - - - - - - - - - - -  |
|     F I S K A L I Z A C J A        |      |     F I S K A L I Z A T I O N      |
|TYP:       POSNET THERMAL FV EJ 1.01|      |TYPE:      POSNET THERMAL FV EJ 1.01|
|NUMER UNIKATOWY:      ABC 12345678|      |FISCAL MEMO ID:        ABC 12345678|
|                                   |      |                                   |
|123-456-78-90                      |      |123-456-78-90                      |
|                                   |      |                                   |
|                                   |      |                                   |
|      N I E F I S K A L N Y         |      |        N O N - F I S C A L         |
|   #321   SERWIS           13:22|      |   #321   SERWICE          13:22|
wydruk po potwierdzeniu zamiaru              printout after confirming the intention
kontynuowania fiskalizacji                   of continuing fiskalization
i poprawności daty:                          and date correctness:
|        P O S N E T         |      |        P O S N E T         |
| D R U K A R K A   F I S K A L N A |      | F I S C A L   P R I N T E R       |
|-----------------------------------|      |-----------------------------------|
|        123-456-78-90              |      |        123-456-78-90              |
|2007-02-19                      45|      |2007-02-19                      45|
|      N I E F I S K A L N Y         |      |        N O N - F I S C A L         |
|      F I S K A L I Z A C J A       |      |      F I S K A L I Z A T I O N     |
|DATA:              2007-02-19|      |DATE:              2007-02-19|
|GODZINA:                 13:22|      |HOUR:                    13:22|
```

```
|TYP:        POSNET THERMAL FV EJ 1.01|    |TYPE        POSNET THERMAL FV EJ 1.01|
|NUMER UNIKATOWY:       ABC 12345678|       |FISCAL MEMO ID:        ABC 12345678|
|        N I E F I S K A L N Y        |    |        N O N - F I S C A L        |
|    #321   SERWIS           13:23|         |    #321   SERWICE          13:23|
|            12345678             |         |            12345678             |
```

```
|TYP:        POSNET THERMAL FV EJ 1.01|    |TYPE        POSNET THERMAL FV EJ 1.01|
|NUMER UNIKATOWY:       ABC 12345678|       |FISCAL MEMO ID:        ABC 12345678|
|        N I E F I S K A L N Y        |    |        N O N - F I S C A L        |
|    #321   SERWIS           13:23|         |    #321   SERWICE          13:23|
|            12345678             |         |            12345678             |
```

[auth] Inserting authorization code

Command Id:
auth

Input parameters:

Name	Description	Required	Type	Remarks
co	Authorization code	YES	Alphanum.	The length of 17 characters

Device response:
standard

Remarks:
Availability in read only mode: YES

Example:
[STX]auth[TAB]co05301311570451629[TAB]#CRC16[ETX]

[maintenance] Inserting data of the next service inspection

Command Id:
maintenance

Input parameters:

Name	Description	Required	Type	Remarks
te	Information text printed on a printout reminding about service inspection	NO	Alphanum.	The length of 30 characters
da	Date of the next service inspection	YES	Date	

Device response:
standard

Remarks:
Availability in read only mode: YES

Example:
[STX]maintenance[TAB]tetel.: 111 222 333[TAB]da2006-10-30[tab]#CRC16[ETX]

[opendrwr] Opening a drawer

Command Id:
opendrwr

Input parameters:
none

Device response:
standard

Remarks:
Availability in read only mode: YES

Example:
[STX]opendrwr[TAB]#CRC16[ETX]

[papfeed] Paper feed

Order Id:

papfeed

Input parameters:

Na,e	Description	Required	Type	Remarks
ln	Number of lines	YES	Num.	Maximum number of lines can not exceed 20.

Device response:

standard

Remarks:

Availability in read only mode: NO

Example:

[STX]papfeed[TAB]ln6[TAB]#CRC16[ETX]

[prncfgset] Printout configuration

Command Id:
prncfgset

Input parameters:

Name	Description	Required	Type	Remarks
nf	1 – non-fiscal printouts on a copy and original 0 – non-fiscal printouts only on a copy	NO	Num.	Default nf=1

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]prncfgset[tab]nf0[TAB]#CRC16[ETX]

[papersavecfg] Paper saving mode configuration

Command Id:
papersavecfg

Input parameters:

Name	Description	Required	Type	Remarks
ps	paper saving mode: 1 – on 0 – off	YES	Num.	

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]papersavecfg[tab]ps0[TAB]#CRC16[ETX]

[ftrcfg] Printout footer configuration

Command Id:
ftrcfg

Input parameters:

Name	Description	Required	Type	Remarks
cc	Cashier name	NO	Alphanum.	Length up to 32 characters. First 17 characters are printed.
cn	Number of cash register	NO	Alphanum.	Up to 8 characters.
ca	Cashier name and cash register number printing scope.	NO	Bool	0 – cashier name and cash register number are valid only until the next printout (default) 1 – cashier name and cash register number are valid all the time
sn	System number	NO	Alphanum.	Up to 30 characters
bc	Bar code	NO	Alphanum.	Up to 30 characters
ln	Information line	NO	Alphanum.	The same as *tx* parameter in *ftrinfoset* command
lb	Information line printing scope	NO	Bool	0 – inform. line is printed only on the next receipt (default) 1 – information line is printed on all receipts
fe	footer end	NO	Num.	0 – paper feed and cut (default) 1 – feed without cut 2 – without feed and cut

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]ftrcfg[TAB]ca1[TAB]ca1[TAB]ccHELMUT[TAB]cn129[TAB]sn876[TAB]bc1122334455[

TAB]lnDZIĘKUJEMY[TAB]lb1[TAB]#CRC16[ETX]

[dspcfg] Display parameters configuration

Command Id:
dspcfg

Input parameters:

Name	Description	Required	Type	Remarks
id	Display Id	YES	Num.	1 – operator 0 – client
co	Display contrast	NO	Num.	Scope: 1 – 16
lu	Backlight brightness	NO	Num.	Scope: 1 – 16
ls	Backlight mode	NO	Num.	0 – always on 1 – always off 2 – on only when plugged in
od	Time of turning off the backlight on operator's display in seconds	NO	Num.	Scope: 0 – 999

Device response:
standard

Remarks:
If one of optional parameters is not sent, the value of a particular parameter in a printer is not changed.
Availability in read only mode: YES

Example:
[STX]dspcfg[TAB]id1[TAB]co8[TAB]lu16[TAB]#CRC16[ETX]

[dspmode] Information display mode configuration for a transaction

Command Id:
dspmode

Input parameters:

Name	Descriptions	Required	Type	Remarks
ln	Should the name of sold goods be displayed together with its value?	NO	BOOL	true-yes, false-no (default)
dn	Should the name of a granted discount be displayed together with its value?	NO	BOOL	true-yes, false-no (default)
pn	Should the name of returnable container be displayed with its value?	NO	BOOL	true-yes, false-no (default)
yn	Should the name of payment form be displayed with its value?	NO	BOOL	true-yes, false-no (default)
cn	Should be displayed „Change", „To be paid"?	NO	BOOL	true-yes, false-no (default)

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]dspmode[TAB]dn1[TAB]#CRC16[ETX]

[dsptxtline] Random information line on a display

Command Id:
dsptxtline

Input parameters:

Name	Description	Required	Type	Remarks
id	Display Id	YES	Num.	0 – client's display 1 – operator's display
no	Line number	YES	Num.	Lines numbered from zero
ln	Line content	YES	Alphanum.	Up to 20 characters

Device response:
standard

Remarks:
1. Sending a sequence to the display in course of transaction or before 45 sec. after its finish results in buffering operations (it will be performed when possible).
2. For LED display the sequence is ignored.
3. When the display of the operator and the client is shared, sequences on operator's display are ignored.
4. Availability in read only mode: NO

Example:
[STX]dsptxtline[TAB]id0[TAB]no1[TAB]lnZAPRASZAMY[TAB]#CRC16[ETX]

[dsptxt] Random display content

Command Id:

dsptxt

Input parameters:

Name	Description	Required	Type	Remarks
id	Display Id	YES	Num.	0 – client display 1 – operator display
st	Display content. Full picture of a display should be sent – 2x20 characters (client display) or 4x20 characters (operator display). Fields not sent will be replaced by spaces.	YES	Alphanum.	Maximum line length is 20 characters. Lines separated by LF character (0Ah)

Device response:

standard

Remarks:

Availability in read only mode: NO

Example:

[STX]dsptxt[TAB]id1[TAB]stZAPRASZAMY[LF]JUTRO[TAB]#CRC16[ETX]

[dspcmd] Displaying date and time

Command Id:
dspcmd

Input parameters:

Name	Description	Required	Type	Remarks
id	Display Id	YES	Num.	0 – client 1 – operator
st	Command defining what to display	YES	Num.	0 – embedded texts 1 – texts sent before 2 – date and time In order to maintain compatibility with future versions, parameters outside the scope do not result in sending back an error.

Remarks:
1. For operator display operators are performed "on-line".
2. Sending a sequence to client display in course of transaction or within 45 sec. which results in buffering operations (will be performed when possible).
3. When the display of the operator and the client is shared, sequences on operator's display are ignored.
4. Availability in read only mode: NO

Device response:
standard

Example:
[STX]dspcmd[TAB]id1[TAB]st1[TAB]#CRC16[ETX]

[discounttypeset] Discount calculation type configuration

Command Id:

discounttypeset

Input parameters:

Name	Description	Required	Type	Remarks
dt	Discount configuration type	NO	BOOL	false – discounted value calculated as first, discounts next (default) true– discount calculated as first, discounted value as next

Device response:

standard

Remarks:

Availability in read only mode: NO

Example:

for dt=0

[STX]discounttypeset[TAB]dt0[TAB]#CRC16[ETX]
[STX]trinit[TAB]bm0[TAB]#CRC16[ETX]
[STX]trline[TAB]naDlugopis[TAB]vt2[TAB]pr1350[TAB]st0[TAB]wa1350[TAB]il1[TAB]#CRC16[ETX]
[STX]trdiscntbill[TAB]naPromocja[TAB]rd1[TAB]rp1500[TAB]#CRC16[ETX]
[STX]trend[TAB]to1148[TAB]#CRC16[ETX]

for dt=1

[STX]discounttypeset[TAB]dt1[TAB]#CRC16[ETX]
[STX]trinit[TAB]bm0[TAB]#CRC16[ETX]
[STX]trline[TAB]naDlugopis[TAB]vt2[TAB]pr1350[TAB]st0[TAB]wa1350[TAB]il1[TAB]#CRC16[ETX]
[STX]trdiscntbill[TAB]naPromocja[TAB]rd1[TAB]rp1500[TAB]#CRC16[ETX]
[STX]trend[TAB]to1147[TAB]#CRC16[ETX]

[currrateset] Currency exchange rate change

Command Id:
currrateset

Input parameters:

Name	Description	Required	Type	Remarks
on	Currency exchange rate state.	YES	BOOL	True – exchange rate on, other fields required. False - exchange rate off, other fields ignored.
ra	Currency exchange rate.	NO	Num.	The last six characters constitute fractional part
na	Currency symbol.	NO	Alphanum.	Precisely three capital letters without diacritics.
di	Value calculating way in currency by exchange rate.	NO	BOOL	True – exchange rate is calculating from sent currency to evidence currency False – exchange rate is calculating from evidence currency to sent currency

Device response:
standard

Remarks:
Maximum exchange rate: 9999,999999
Availability in read only mode: YES

Example:
[STX]currrateset[TAB]onT[TAB]ra3333333[TAB]naEUR[TAB]diT[TAB]#CRC16[ETX]
– exchange rate setting: 1 EUR = 3,333333 PLN (providing that evidence currency is PLN).

[STX]currrateset[TAB]onT[TAB]ra0300000[TAB]naEUR[TAB]diN[TAB]#CRC16[ETX]
– exchange rate setting: 1 PLN = 0,300000 EUR (providing that evidence currency is PLN).

[currrateget] Currency exchange rate reading

Command Id:
currrateget

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
on	Exchange rate state	YES	BOOL	True – exchange rate on, False – exchange rate off.
ra	Exchange rate	YES	Num.	The last six characters constitute fractional part
na	Currency symbol.		Alphanum.	
di	Value calculating in exchange rate currency.		BOOL	True – exchange rate is calculating from sent currency to evidence currency False – exchange rate is calculating from evidence currency to sent currency

Remarks:
Maximum exchange rate: 9999,999999
Availability in read only mode: YES

Example:
[STX]currrateget[TAB]onT[TAB]ra0300000[TAB]naEUR[TAB]diN[TAB]#CRC16[ETX]
– set exchange rate: 1 PLN = 0,300000 EUR (providing that evidence currency is PLN).
[STX]currrateget[TAB]onN[TAB]ra0000000[TAB]na[TAB]diN[TAB]#CRC16[ETX]
– curreny exchange rate off.

[currset] Change of evidence currency

Command Id:
currset

Input parameters:

Name	Description	Required	Type	Remarks
na	Currency symbol.	YES	Alphanum.	Precisely three capital letters without diacritics.
da	Date and hour of evidence currency change.	YES	Date and time	Defines when to change currency automatically.

Device response:
standard

Remarks:
Change possible only for zero totalizers.
Availability in read only mode: NO

[currget] Reading evidence currency

Command Id:

currget

Input parameters:

Device response:

Name	Description	Required	Type	Remarks
na	Valid currency symbol.	YES	Alphanum.	

Remarks:

Availability in read only mode: YES

[ecbufinfoget] Reading data about electronic journal buffer

Command Id:
ecbufinfoget

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
sf	Available space in electronic journal buffer	YES	Num.	In bytes.

Remarks:
Availability in read only mode: YES

[ecmedinfoget] Reading data about electronic journal card

Command Id:
ecmedinfoget

Input parameters:
none

Device response:

Name	Device	Required	Type	Required
pr	Card available?	YES	Num	0 – no card
sf	Space available on the card	YES	Num	Value in kilobytes

Remarks:
Availability in read only mode: YES

[ecpubkeyget] Public key reading

Command Id:
ecpubkeyget

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
rn	Part N of public key	YES	Alphanu m.	HEX record
re	Part E of public key	YES	Alphanu m.	HEX record

Remarks:
Availability in read only mode: YES

[svc] Tunneling data to a service

Command Id:

svc

Input parameters:

Name	Description	Required	Type	Remarks
id	Service Id	YES	Alphanum.	Number of service to which data is sent (0-255).
fl	Flags	NO	Alphanum.	Byte value (0-255)
da	Data	NO	Alphanum.	Data that should be sent to a service (HEX record, max. 256 characters).

Device response:

Name	Description	Required	Type	Remarks
id	Service Id	YES	Alphanum.	Number of service sending data.
fl	Flags	YES	Alphanum.	Byte value (0-255)
da	Data	YES	Alphanum.	Date sent by service (HEX record, max 256 characters).

Remarks:

Availability in read only mode: YES

The command is only a transport frame for other protocols.
In order to load data to a service, a frame with empty data field should be sent.

id = 1 – FSP server.

In case of packet communication the meaning of flag byte is following:
bit 0: pack start
bit 1: packet end

If a packet does not fit in 128 bytes (256 HEX), it should be divided by sending particular parts with appropriate flags (for parts that are not first or last in a packet, flags = 0). A response in divided analogically, whereas while loading the following parts, frames with flags = 0 should be sent, until the whole packet is received.

[rpt] Repeat of response to a sent command

Command Id:
rpt

Input parameters:
none

Device response:
The printer returns the response granted to the command with a token equal to rpt. command.

Remarks:
Availability in read only mode: YES

Example:
The following command was sent:
[STX]stocash[TAB]kw100[TAB]@8765[TAB]#CRC16[ETX]
the device sent the following response:
[STX]stocash[TAB]@8765[TAB]#CRC16[ETX]

after sending a command:
[STX]rpt[TAB]@8765[TAB]#CRC16[ETX]
a response to the command with token 8765 is received, that is:
[STX]stocash[TAB]@8765[TAB]#CRC16[ETX]

if a command can not be sent, the error is returned:
[STX]ERR[TAB]@8765[TAB]er13[TAB]cmrpt[TAB]#CRC16[ETX]
It is frame protocol error no. 13.

Remarks:
The device is able to store a limited number of responses to already sent commands.

Printing reports

[cashrep] Embedded text report

Command Id:
cashrep

Input parameters:
none

Device response:
Standard

Remarks:
Availability in read only mode: YES

Example:
[STX]cashrep[TAB]#CRC16[ETX]

[dailyrep] Daily report

Command Id:

dailyrep

Input parameters:

Name	Description	Required	Type	Remarks
da	Current date	NO	Date	Date is verified with current setting of system clock. In case of lack of parameter, date has to be confirmed by a user using a keyboard.

Device response:

standard

Remarks:

In fiscal mode performing a daily report is not allowed, if a report had already been performed on a particular date and printer totalizers are equal zero.

Availability in read only mode: NO

Example:

[STX]dailyrep[TAB]da2007-02-19[TAB]#CRC16[ETX]

Printout:

```
|        P O S N E T         |      |          P O S N E T          |
| D R U K A R K A  F I S K A L N A  |      |    F I S C A L   P R I N T E R     |
|         123-456-78-90         |      |         123-456-78-90          |
|2007-02-19                  4|      |2007-02-19                     4|
|       F I S K A L N Y        |      |          F I S C A L           |
|   R A P O R T  D O B O W Y   |      |     D A I L Y   R E P O R T     |
|PTU A                22,00 %|      |VAT A                  22,00 %|
|PTU B                 7,00 %|      |VAT B                   7,00 %|
|PTU C                 3,00 %|      |VAT C                   3,00 %|
|PTU D                 0,25 %|      |VAT D                   0,25 %|
|G              SP.ZW.PTU|      |G                SP.ZW.PTU|
|- - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - |
|2007-02-19                  2|      |2007-02-19                     2|
|- - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. PTU A       16,66|      |VAT RATE A                      16,66|
|SPRZEDAŻ OPODATK. PTU B       28,50|      |VAT RATE B                      28,50|
|SPRZEDAŻ OPODATK. PTU C        0,00|      |VAT RATE C                       0,00|
|SPRZEDAŻ OPODATK. PTU D       10,14|      |VAT RATE D                      10,14|
|SPRZEDAŻ OPODATK. PTU AFV    4549,18|      |VAT RATE AFV                  4549,18|
|SPRZEDAŻ OPODATK. PTU BFV      93,45|      |VAT RATE BFV                    93,45|
|SPRZEDAŻ OPODATK. PTU CFV       0,00|      |VAT RATE CFV                     0,00|
|SPRZEDAŻ OPODATK. PTU DFV       0,00|      |VAT RATE DFV                     0,00|
|SPRZEDAŻ ZWOLN.   PTU G         0,00|      |SALES EXEMPTED    VAT G           0,00|
|SPRZEDAŻ ZWOLN.   PTU GFV       0,00|      |SALES EXEMPTED    VAT GFV         0,00|
|KWOTA PTU A                     3,67|      |AMOUNT VAT A                     3,67|
|KWOTA PTU B                     2,00|      |AMOUNT VAT C                     0,00|
```

```
|KWOTA PTU D                 0,03|        |AMOUNT VAT C                0,00|
|KWOTA PTU AFV            1000,82|        |AMOUNT VAT D                0,03|
|KWOTA PTU BFV               6,54|        |AMOUNT VAT AFV           1000,82|
|KWOTA PTU CFV               0,00|        |AMOUNT VAT BFV              6,54|
|KWOTA PTU DFV               0,00|        |AMOUNT VAT CFV              0,00|
|ŁĄCZNA KWOTA PTU         1013,06|        |AMOUNT VAT DFV              0,00|
|ŁĄCZNA NALEŻNOŚĆ         5710,99|        |TOTAL VAT AMOUNT         1013,06|
|- - - - - - - - - - - - - - - - |        |TOTAL DUE AMOUNT         5710,99|
|ZMIANY W BAZIE TOWAROWEJ      5|        |- - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - |        |CHANGES IN GOODS DATA BASE     5|
|ILOŚĆ PARAGONÓW               1|        |- - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - |        |NUMBER OF RECEIPTS             1|
|ILOŚĆ FAKTUR                  1|        |- - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - |        |NUMBER OF INVOICES             1|
|ILOŚĆ POZYCJI                29|        |- - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - |        |NUMBER OF ITEMS               29|
|     #321   KAJTEK       13:37|        |- - - - - - - - - - - - - - - - |
|        {PL} ABC 12345678       |        |     #321   KAJTEK       13:37|
|                                |        |        {PL} ABC 12345678       |
|                                |        |                                |
|KWOTA PTU B                 2,00|        |                                |
```

[periodicrepbynumbers] Periodical report by numbers

Command Id:

periodicrepbynumbers

Input parameters:

Name	Description	Required	Type	Remarks
fn	Initial number	YES	Num.	
tn	Final number	YES	Num.	
su	Print summary report only?	NO	BOOL	Default false

Device response:

standard

Remarks:

Availability in read only mode: YES

Example:

[STX]periodicrepbynumbers[TAB]fn5[TAB]tn34[TAB]#CRC16[ETX]

Printout:

```
|        P O S N E T        |     |        P O S N E T        |
| D R U K A R K A  F I S K A L N A  |     | F I S C A L - P R I N T E R    |
|        999-888-77-66      |     |        999-888-77-66      |
|2007-12-04                 |     |2007-12-04                 |
|        F I S K A L N Y    |     |        F I S C A L        |
|      RAPORT OKRESOWY      |     |      PERIODICAL REPORT    |
|Od               2007-12-04|     |From             2007-12-04|
|Do               2007-12-04|     |To               2007-12-04|
|Od raportu              8|     |From report             8|
|Do raportu              8|     |To report               8|
|- - - - - - - - - - - - - - - - |     |- - - - - - - - - - - - - - - - |
|PTU A               22,00 %|     |VAT A               22,00 %|
|PTU B                7,00 %|     |VAT B                7,00 %|
|PTU C                3,00 %|     |VAT C                3,00 %|
|G             SP.ZW.PTU|     |G             SP.ZW.PTU|
|- - - - - - - - - - - - - - - - |     |- - - - - - - - - - - - - - - - |
|2007-12-04              8|     |2007-12-04              8|
|- - - - - - - - - - - - - - - - |     |- - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. PTU A    0,00|     |VAT RATE A              0,00|
|SPRZEDAŻ OPODATK. PTU B    0,00|     |VAT RATE B              0,00|
|SPRZEDAŻ OPODATK. PTU C    0,00|     |VAT RATE C              0,00|
|SPRZEDAŻ OPODATK. PTU AFV   0,00|     |VAT RATE AFV            0,00|
|SPRZEDAŻ OPODATK. PTU BFV 140,19|     |VAT RATE BFV          140,19|
|SPRZEDAŻ OPODATK. PTU CFV   0,00|     |VAT RATE CFV            0,00|
|SPRZEDAŻ ZWOLN.   PTU G    0,00|     |SALES EXEPTED    VAT G     0,00|
|SPRZEDAŻ ZWOLN.   PTU GFV   0,00|     |SALES EXEMTED    VAT GFV   0,00|
|KWOTA PTU A               0,00|     |AMOUNT VAT A            0,00|
|KWOTA PTU B               0,00|     |AMOUNT VAT B            0,00|
|KWOTA PTU C               0,00|     |AMOUNT VAT AFV          0,00|
```

```
|KWOTA PTU BFV                9,81|        |AMOUNT VAT AFV               0,00|
|KWOTA PTU CFV                0,00|        |AMOUNT VAT BFV               9,81|
|ŁĄCZNA KWOTA PTU             9,81|        |AMOUNT VAT CFV               0,00|
|- - - - - - - - - - - - - - - - |        |TOTAL VAT VALUE             9,81|
|ŁĄCZNA NALEŻNOŚĆ           150,00|        |- - - - - - - - - - - - - - - - |
|ILOŚĆ PARAGONÓW                 0|        |TOTAL AMOUNT DUE          150,00|
|- - - - - - - - - - - - - - - - |        |NUMBER OF RECEIPTS              0|
|ILOŚĆ FAKTUR                    1|        |- - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - |        |NUMBER OF INVOICES              1|
|ILOŚĆ POZYCJI                  23|        |- - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - |        |NUMBER OF ITEMS                23|
|   RAPORT OKRESOWY  PODSUMOWANIE  |        |- - - - - - - - - - - - - - - - |
|Od                     2007-12-04|        |    PERIODICAL REPORT SUMMARY    |
|Do                     2007-12-04|        |From                   2007-12-04|
|Od raportu                      8|        |To                     2007-12-04|
|Do raportu                      8|        |From report                     8|
|- - - - - - - - - - - - - - - - |        |To report                       8|
|Sprzed. opodatk. PTU A       0,00|        |- - - - - - - - - - - - - - - - |
|Sprzed. opodatk. PTU B       0,00|        |VAT RATE A                   0,00|
|Sprzed. opodatk. PTU C       0,00|        |VAT RATE B                   0,00|
|Sprzed. opodatk. PTU AFV     0,00|        |VAT RATE C                   0,00|
|Sprzed. opodatk. PTU BFV   140,19|        |VAT RATE AFV                 0,00|
|Sprzed. opodatk. PTU CFV     0,00|        |VAT RATE BFV               140,19|
|Sprzed. zwoln. PTU G         0,00|        |VAT RATE CFV                 0,00|
|Sprzed. zwoln. PTU GFV       0,00|        |Sales exempted VAT G         0,00|
|Kwota PTU A                  0,00|        |Sales exempted VAT GFV       0,00|
|Kwota PTU B                  0,00|        |Amount VAT A                 0,00|
|Kwota PTU C                  0,00|        |Amount VAT B                 0,00|
|Kwota PTU AFV                0,00|        |Amount VAT C                 0,00|
|Kwota PTU BFV                9,81|        |Amount VAT AFV               0,00|
|Kwota PTU CFV                0,00|        |Amount VAT BFV               9,81|
|ŁĄCZNA KWOTA PTU             9,81|        |Amount VAT CFV               0,00|
|ŁĄCZNA NALEŻNOŚĆ           150,00|        |TOTAL AMOUNT VAT             9,81|
|ILOŚĆ PARAGONÓW                 0|        |TOTAL AMOUNT DUE          150,00|
|- - - - - - - - - - - - - - - - |        |NUMBER OF RECEIPTS              0|
|ILOŚĆ FAKTUR                    1|        |- - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - |        |NUMBER OF INVOICES              1|
|   #001      KIEROWNIK     11:30|        |- - - - - - - - - - - - - - - - |
|       {PL} ABC 12345678         |        |   #001       MANAGER      11:30|
                                            |       {PL} ABC 12345678         |
|KWOTA PTU C                  0,00|
```

[periodicrepbydates] Periodical report by dates

Command Id:

periodicrepbydates

Input parameters:

Name	Description	Required	Type	Remarks
fd	Initial date	YES	Num.	
td	Final date	YES	Num.	
su	Print summary report only?	NO	BOOL	Default false – full report

Device response:

standard

Remarks:

Availability in read only mode: YES

Example:

[STX]periodicrepbydates[TAB]fd2006-06-19[TAB]td2007-08-25[TAB]#CRC16[ETX]

Printout:

```
|      P O S N E T           |    |        P O S N E T            |
|  D R U K A R K A  F I S K A L N A  |    |  F I S C A L - P R I N T E R   |
|        999-888-77-66       |    |        999-888-77-66          |
|2007-12-04                  |    |2007-12-04                     |
|      F I S K A L N Y        |    |        F I S C A L            |
|    RAPORT OKRESOWY          |    |    PERIODICAL REPORT          |
|Od              2007-12-04|    |From                2007-12-04|
|Do              2007-12-04|    |To                  2007-12-04|
|Od raportu              8|    |From report                 8|
|Do raportu              8|    |To report                   8|
|- - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - |
|PTU A              22,00 %|    |VAT A              22,00 %|
|PTU B               7,00 %|    |VAT B               7,00 %|
|PTU C               3,00 %|    |VAT C               3,00 %|
|G            SP.ZW.PTU|    |G              S.EX.VAT|
|- - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - |
|2007-12-04              8|    |2007-12-04              8|
|- - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. PTU A      0,00|    |VAT RATE A                0,00|
|SPRZEDAŻ OPODATK. PTU B      0,00|    |VAT RATE B                0,00|
|SPRZEDAŻ OPODATK. PTU C      0,00|    |VAT RATE C                0,00|
|SPRZEDAŻ OPODATK. PTU AFV    0,00|    |VAT RATE AFV              0,00|
|SPRZEDAŻ OPODATK. PTU BFV  140,19|    |VAT RATE BFV            140,19|
|SPRZEDAŻ OPODATK. PTU CFV    0,00|    |VAT RATE CFV              0,00|
|SPRZEDAŻ ZWOLN.   PTU GFV    0,00|    |SALES EXEMPTED VAT GFV    0,00|
|SPRZEDAŻ ZWOLN.   PTU G      0,00|    |SALES EXEMPTED VAT G      0,00|
|KWOTA PTU A                  0,00|    |AMOUNT VAT A              0,00|
|KWOTA PTU B                  0,00|    |AMOUNT VAT B              0,00|
|KWOTA PTU C                  0,00|    |AMOUNT VAT C              0,00|
|KWOTA PTU AFV                0,00|    |AMOUNT VAT AFV            0,00|
|KWOTA PTU BFV                9,81|    |AMOUNT VAT CFV            0,00|
```

```
|ŁĄCZNA KWOTA PTU              9,81|        |AMOUNT VAT CFV                0,00|
|ŁĄCZNA NALEŻNOŚĆ            150,00|        |TOTAL AMOUNT VAT              9,81|
|- - - - - - - - - - - - - - - - - |        |TOTAL AMOUNT DUE            150,00|
|ILOŚĆ PARAGONÓW                  0|        |- - - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - - |        |NUMBER OF RECEIPTS               0|
|ILOŚĆ FAKTUR                     1|        |- - - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - - |        |NUMBER OF INVOICES               1|
|ILOŚĆ POZYCJI                   23|        |- - - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - - |        |NUMBER OF ITEMS                 23|
|    RAPORT OKRESOWY  PODSUMOWANIE  |        |- - - - - - - - - - - - - - - - - |
|Od                      2007-12-04|        |    PERIODICAL REPORT   SUMMARY    |
|Do                      2007-12-04|        |From                    2007-12-04|
|Od raportu                       8|        |To                      2007-12-04|
|Do raportu                       8|        |From report                      8|
|- - - - - - - - - - - - - - - - - |        |To report                        8|
|Sprzed. opodatk. PTU A       0,00|        |- - - - - - - - - - - - - - - - - |
|Sprzed. opodatk. PTU B       0,00|        |VAT RATE AMOUNT A             0,00|
|Sprzed. opodatk. PTU C       0,00|        |VAT RATE AMOUNT B             0,00|
|Sprzed. opodatk. PTU AFV     0,00|        |VAT RATE AMOUNT C             0,00|
|Sprzed. opodatk. PTU BFV   140,19|        |VAT RATE AMOUNT AFV           0,00|
|Sprzed. opodatk. PTU CFV     0,00|        |VAT RATE AMOUNT BFV         140,19|
|Sprzed. zwoln. PTU G         0,00|        |VAT RATE AMOUNT CFV           0,00|
|Sprzed. zwoln. PTU GFV       0,00|        |Sales exempted VAT G          0,00|
|Kwota PTU A                  0,00|        |Sales exempted VAT GFV        0,00|
|Kwota PTU B                  0,00|        |Amount VAT A                  0,00|
|Kwota PTU C                  0,00|        |Amount VAT B                  0,00|
|Kwota PTU AFV                0,00|        |Amount VAT C                  0,00|
|Kwota PTU BFV                9,81|        |Amount VAT AFV                0,00|
|Kwota PTU CFV                0,00|        |Amount VAT BFV                9,81|
|ŁĄCZNA KWOTA PTU             9,81|        |Amount VAT CFV                0,00|
|ŁĄCZNA NALEŻNOŚĆ           150,00|        |TOTAL AMOUNT VAT              9,81|
|ILOŚĆ PARAGONÓW                 0|        |TOTAL AMOUNT DUE            150,00|
- - - - - - - - - - - - - - - - - |        |NUMBER OF RECEIPTS               0|
|ILOŚĆ FAKTUR                    1|        - - - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - - |        |NUMBER OF INVOICES               1|
|   #001      KIEROWNIK      11:30|        |- - - - - - - - - - - - - - - - - |
|       {PL} ABC 12345678         |        |    #001      MANAGER       11:30|
|KWOTA PTU BFV                9,81|        |       {PL} ABC 12345678         |
```

[monthlyrep] Monthly report

Command Id:

monthlyrep

Input parameters:

Name	Description	Required	Type	Remarks
da	Inital date	YES	Num.	In the sent date, year and month is taken into consideration. Day is ignored.
su	Print only summary report?	NO	BOOL	Default false – full report

Device response:

standard

Remarks:

Monthly report can not be printed from a current month.
Availability in read only mode: YES

Example:

[STX]monthlyrep[TAB]da2006-06-19[TAB]#CRC16[ETX]

Printout:

```
|         P O S N E T            |         P O S N E T
| D R U K A R K A  F I S K A L N A |     F I S C A L – P R I N T E R
|         999-888-77-66         |         999-888-77-66
|2007-12-04                     |2007-12-04
|         F I S K A L N Y        |         F I S C A L
|   RAPORT OKRESOWY MIESIĘCZNY   |    MONTHLY PERIODICAL REPORT
|Rok:2007            Miesiąc:11| |Year:2007            Month:11|
|Do raportu                   3| |To report                  3|
|Od raportu                   1| |From report                1|
|DATA FISKALIZACJI:   2007-11-29| |FISCALIZATION DATE:  2007-11-29|
|- - - - - - - - - - - - - - - | |- - - - - - - - - - - - - - - |
|PTU A               22,00 %|    |VAT A               22,00 %|
|PTU B                7,00 %|    |VAT B                7,00 %|
|PTU C                3,00 %|    |VAT C                3,00 %|
|G               SP.ZW.PTU|      |G               S.EX.VAT|
|- - - - - - - - - - - - - - - | |- - - - - - - - - - - - - - - |
|PTU A               22,00 %|    |VAT A               22,00 %|
|PTU B                7,00 %|    |VAT B                7,00 %|
|PTU C                3,00 %|    |VAT C                3,00 %|
|G               SP.ZW.PTU|      |G               S.EX.VAT|
|- - - - - - - - - - - - - - - | |- - - - - - - - - - - - - - - |
|2007-11-29                   1| |2007-11-29                 1|
|- - - - - - - - - - - - - - - | |- - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. PTU A    0,00| |VAT RATE   A               0,00|
|SPRZEDAŻ OPODATK. PTU B    0,00| |VAT RATE   B               0,00|
|SPRZEDAŻ OPODATK. PTU C    0,00| |VAT RATE   C               0,00|
|SPRZEDAŻ OPODATK. PTU AFV  0,00| |VAT RATE CFV               0,00|
|SPRZEDAŻ OPODATK. PTU BFV  0,00| |VAT RATE   G               0,00|
```

```
|SPRZEDAŻ ZWOLN.   PTU GFV        0,00|    |VAT RATE   CFV                      0,00|
|KWOTA PTU A                      0,00|    |SALES EXEMPTED    VAT G            0,00|
|KWOTA PTU B                      0,00|    |SALES EXEMPTED    VAT GFV          0,00|
|KWOTA PTU C                      0,00|    |AMOUNT VAT A                       0,00|
|KWOTA PTU AFV                    0,00|    |AMOUNT VAT B                       0,00|
|KWOTA PTU BFV                    0,00|    |AMOUNT VAT C                       0,00|
|KWOTA PTU CFV                    0,00|    |AMOUNT VAT AFV                     0,00|
|ŁĄCZNA NALEŻNOŚĆ                 0,00|    |AMOUNT VAT BFV                     0,00|
|- - - - - - - - - - - - - - - - - - |    |AMOUNT VAT CFV                     0,00|
|ILOŚĆ PARAGONÓW                     0|    |TOTAL                              0,00|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|ILOŚĆ FAKTUR                        0|    |NUMBER OF RECEIPTS                    0|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|ILOŚĆ POZYCJI                      26|    |NUMBER OF INVOICES                    0|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|2007-11-29                          2|    |NUMBER OF ITEMS                      26|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. PTU A         32,79|    |2007-11-29                            2|
|SPRZEDAŻ OPODATK. PTU B         28,04|    |- - - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. PTU C         29,13|    |VAT RATE A                        32,79|
|SPRZEDAŻ OPODATK. PTU AFV        8,20|    |VAT RATE B                        28,04|
|SPRZEDAŻ OPODATK. PTU BFV        4,67|    |VAT RATE C                        29,13|
|SPRZEDAŻ OPODATK. PTU CFV        0,00|    |VAT RATE AFV                       8,20|
|SPRZEDAŻ ZWOLN.   PTU G          0,00|    |VAT RATE BFV                       4,67|
|SPRZEDAŻ ZWOLN.   PTU GFV        0,00|    |VAT RATE CFV                       0,00|
|KWOTA PTU A                      7,21|    |SALES EXEMPTED    VAT G            0,00|
|KWOTA PTU B                      1,96|    |SALES EXEMPTED    VAT GFV          0,00|
|KWOTA PTU C                      0,87|    |AMOUNT VAT A                       7,21|
|KWOTA PTU AFV                    1,80|    |AMOUNT VAT B                       1,96|
|KWOTA PTU BFV                    0,33|    |AMOUNT VAT C                       0,87|
|KWOTA PTU CFV                    0,00|    |AMOUNT VAT AFV                     1,80|
|ŁĄCZNA KWOTA PTU                12,17|    |AMOUNT VAT BFV                     0,33|
|ŁĄCZNA NALEŻNOŚĆ               115,00|    |AMOUNT VAT CFV                     0,00|
|- - - - - - - - - - - - - - - - - - |    |TOTAL VAT VALUE                   12,17|
|ZMIANY W BAZIE TOWAROWEJ           25|    |TOTAL AMOUNT DUE                 115,00|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|ILOŚĆ PARAGONÓW ANULOWANYCH         2|    |CHANGES IN DATA BASE OF GOODS       25|
|KWOTA PARAGONÓW ANULOWANYCH  1119,80|    |- - - - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - - - |    |NUMBER OF CANCELLED RECEIPTS         2|
|ILOŚĆ PARAGONÓW                     1|    |VALUE OF CANCELLED RECEIPTS   1119,80|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|ILOŚĆ FAKTUR                        1|    |NUMBER OF RECEIPTS                    1|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|ILOŚĆ POZYCJI                      22|    |NUMBER OF INVOICESC                   1|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|2007-11-30                          3|    |NUMBER OF ITEMS                      22|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. PTU A       4779,02|    |2007-11-30                            3|
|SPRZEDAŻ OPODATK. PTU B       5192,10|    |- - - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. PTU C       5393,74|    |VAT RATE A                      4779,02|
|SPRZEDAŻ OPODATK. PTU AFV        8,20|    |VAT RATE B                      5192,10|
|SPRZEDAŻ OPODATK. PTU BFV        4,67|    |VAT RATE C                      5393,74|
|SPRZEDAŻ OPODATK. PTU CFV        0,00|    |VAT RATE AFV                       8,20|
|SPRZEDAŻ ZWOLN.   PTU G       5555,55|    |VAT RATE BFV                       4,67|
|SPRZEDAŻ ZWOLN.   PTU GFV        0,00|    |VAT RATE CFV                       0,00|
|KWOTA PTU A                   1051,38|    |SALES EXEMPTED    VAT G         5555,55|
|KWOTA PTU B                    363,45|    |SALES EXEMPTED    VAT GFV          0,00|
|KWOTA PTU C                    161,81|    |AMOUNT VAT A                    1051,38|
|KWOTA PTU AFV                    1,80|    |AMOUNT VAT B                     363,45|
|KWOTA PTU BFV                    0,33|    |AMOUNT VAT C                     161,81|
|KWOTA PTU CFV                    0,00|    |AMOUNT VAT AFV                     1,80|
|ŁĄCZNA KWOTA PTU              1578,77|    |AMOUNT VAT BFV                     0,33|
|ŁĄCZNA NALEŻNOŚĆ             22512,05|    |AMOUNT VAT CFV                     0,00|
|- - - - - - - - - - - - - - - - - - |    |TOTAL AMOUNT VAT                1578,77|
|ZMIANY W BAZIE TOWAROWEJ            5|    |TOTAL AMOUNT DUE               22512,05|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|ILOŚĆ PARAGONÓW                     6|    |CHANGES IN GOODS DATA BASE           5|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|ILOŚĆ FAKTUR                        1|    |NUMBER OF RECEIPTS                    6|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|ILOŚĆ POZYCJI                      20|    |NUMBER OF INVOICES                    1|
|- - - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|    RAPORT MIESIĘCZNY PODSUMOWANIE   |    |NUMBER OF ITEMS                      20|
|Rok:2007               Miesiąc:11|    |- - - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. PTU AFV        0,00|    |    MONTHLY REPORT SUMMARY           |
|SPRZEDAŻ OPODATK. PTU BFV        0,00|    |Year:2007                 Month:11|
|Od raportu                          1|    |- - - - - - - - - - - - - - - - - - |
|Do raportu                          3|    |VAT RATE A                      4811,81|
```

```
|Sprzed. opodatk. PTU B          5220,14|        |- - - - - - - - - - - - - - - - - - - |
|Sprzed. opodatk. PTU C          5422,87|        |VAT RATE A                      4811,81|
|Sprzed. opodatk. PTU AFV          16,40|        |VAT RATE B                      5220,14|
|Sprzed. opodatk. PTU BFV           9,34|        |VAT RATE C                      5422,87|
|Sprzed. opodatk. PTU CFV           0,00|        |VAT RATE AFV                      16,40|
|Sprzed. zwoln. PTU G            5555,55|        |VAT RATE BFV                       9,34|
|Sprzed. zwoln. PTU GFV             0,00|        |VAT RATE CFV                       0,00|
|Kwota PTU A                     1058,59|        |Sales exempted VAT G            5555,55|
|Kwota PTU B                      365,41|        |Ssles exempted VAT GFV             0,00|
|Kwota PTU C                      162,68|        |AMOUNT VAT A                    1058,59|
|Kwota PTU AFV                      3,60|        |AMOUNT VAT B                     365,41|
|Kwota PTU BFV                      0,66|        |AMOUNT VAT C                     162,68|
|Kwota PTU CFV                      0,00|        |AMOUNT VAT AFV                     3,60|
|ŁĄCZNA KWOTA PTU                1590,94|        |AMOUNT VAT BFV                     0,66|
|ŁĄCZNA NALEŻNOŚĆ               22627,05|        |AMOUNT VAT CFV                     0,00|
|ZMIANY W BAZIE TOWAROWEJ             2|        |TOTAL AMOUNT VAT                1590,94|
|ILOŚĆ PARAGONÓW                      7|        |TOTAL DUE AMOUNT               22627,05|
|ILOŚĆ PARAGONÓW ANULOWANYCH          2|        |CHANGES IN GOODS DATA BASE           2|
|KWOTA PARAGONÓW ANULOWANYCH    1119,80|        |NUMBER OF RECEIPTS                   7|
|- - - - - - - - - - - - - - - - - - - |        |NUMBER OF CANCELLED RECEIPTS         2|
|ILOŚĆ FAKTUR                         2|        |VALUE OF CANCELLED RECEIPTS    1119,80|
|- - - - - - - - - - - - - - - - - - - |        |- - - - - - - - - - - - - - - - - - - |
|    #001      KIEROWNIK         11:41|        |NUMBER OF INVOICES                   2|
|        {PL} ABC 12345678            |        |- - - - - - - - - - - - - - - - - - - |
                                                |    #001      MANAGER           11:41|
|From report                         1|        |        {PL} ABC 12345678            |
|To report                           3|
```

[shiftrep] Shift report

Command Id:

shiftrep

Input parameters:

Name	Description	Required	Type	Remarks
sh	Shift name.	YES	Alphanum.	Up to 8 characters
zr	Clearing report?	NO	BOOL	Default false –reading

Device response:

standard

Remarks:

Availability in read only mode: NO

Example:

[STX]shiftrep[TAB]1[TAB]#CRC16[ETX]

Printout:

```
|         P O S N E T          |      |         P O S N E T          |
| D R U K A R K A   F I S K A L N A  |  | F I S C A L - P R I N T E R  |
|                              |      |                              |
|2007-02-20               54|         |2007-02-20               54|
|      N I E F I S K A L N Y    |      |      N O N - F I S C A L     |
|- - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - |
|      RAPORT ZMIANOWY         |      |        SHIFT REPORT          |
|- - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - |
|Zmiana:              pierwsza|       |Shift:                 first |
|Kasjer:                      |       |Cashier:                     |
|Sprzedaż:               0,00|        |Sales:                  0,00|
|ILOŚĆ PARAGONÓW:           0|        |NUMBER OF RECEIPTS:        0|
|ILOŚĆ ANULOWANYCH PARAGONÓW: 0|      |NUMBER OF CANCELLED RECEIPTS: 0|
|Liczba stornowanych pozycji: 0|      |Number ofcancelled items:  0|
|Wpłaty do kasy:         0,00|        |Payment to cash reg.:   0,00|
|Wypłaty z kasy:         0,00|        |Withdrawal from cash reg.: 0,00|
|STAN KASY:              3,33|        |CASH STATE:             3,33|
|Początek zmiany:  2007-02-20;11:29|  |Shift start:      2007-02-20;11:29|
|Koniec zmiany:    2007-02-20;11:29|  |Sift end:         2007-02-20;11:29|
|- - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - |
|      N I E F I S K A L N Y    |      |      N O N - F I S C A L     |
|   #321   KAJTEK        11:29|       |   #321   KAJTEK        11:29|
```

[cashstaterep] Cash register state report

Command Id:
cashstaterep

Input parameters:
none

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]cashstaterep[TAB]#CRC16[ETX]

Printout:

```
|           P O S N E T         |     |           P O S N E T          |
| D R U K A R K A   F I S K A L N A |  | F I S C A L   P R I N T E R    |
|         999-888-77-66         |     |         999-888-77-66          |
|2007-12-04                   68|     |2007-12-04                    68|
|     N I E F I S K A L N Y     |     |       N O N - F I S C A L      |
|STAN KASY              483,23| |     |CASH REGISER  STATE       483,23|
|     N I E F I S K A L N Y     |     |       N O N - F I S C A L      |
|   #001      KIEROWNIK   11:54| |     |   #001      MANAGER      11:54|
|         12345678             |     |         12345678               |
```

Formats – non-fiscal printouts

[formstart] Format initialization

Command Id:
formstart

Input parameters:

Name	Description	Required	Type	Remarks
fn	Format number	YES	Num.	
fh	Format header number	NO	Num.	Default fh=0

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]formstart[TAB]fn2[TAB]fh1[TAB]#CRC16[ETX]

[formline] Format line

Command Id:
formline

Input parameters:

Name	Description	Required	Type	Remarks
s1	Format line parameter	NO	Alphanum.	All parameters of format line are sent s1 parameter, separated only by LF character (0Ah). The parameter must occur when format line has parameters.
fn	Format number	YES	Num.	
fl	Format line number	YES	Num.	

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]formline[TAB]s1AAAAA[LF]BBBBB[TAB]fn3[TAB]fl0[TAB]#CRC16[ETX]

Printour:
format example no. 2

```
|         P O S N E T           |      |           P O S N E T           |
|   D R U K A R K A   F I S K A L N A   |      |   F I S C A L   P R I N T E R       |
|         999-888-77-66         |      |           999-888-77-66         |
|2007-12-05               144|      |2007-12-05                   144|
|     N I E F I S K A L N Y     |      |       N O N - F I S C A L       |
|     TRANSAKCJE ODŁOŻONE     |      |       POSTPONED TRANSACTIONS     |
|Kasa:               kas11|      |Cash register:               kas11|
|Numer transakcji:    TRS5675677|      |Transaction number:      TRS5675677|
|Numer kasjera:          33|      |Cashier number:              33|
|     N I E F I S K A L N Y     |      |       N O N - F I S C A L       |
|   #001     KIEROWNIK    10:54|      |   #001     MANAGER      10:54|
|         12345678         |      |         12345678         |
```

[formbarcode] System number in format

Command Id:

formbarcode

Input parameters:

Name	Description	Required	Type	Remarks
fn	Format number	YES	Num.	
bc	Number to be printed in form of a bar code	YES	alphanum.	Up to 30 numerical characters. Up to 15 letter characters.

Device response:

standard

Remarks:

Availability in read only mode: NO

Example:

[STX]formbarcode[TAB]fn2[TAB]bc987098912[TAB]#CRC16[ETX]

[formcmd] Command in format

Command Id:
formcmd

Input parameters:

Name	Description	Required	Type	Remarks
fn	Format number	YES	Num.	
cm	Command number	YES	Num.	0 – empty line 1 – separator

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]formcmd[TAB]fn2[TAB]cm1[TAB]#CRC16[ETX]

[formend] Format ending

Command Id:
formend

Input parameters:

Name	Description	Required	Type	Remarks
fn	Format number	YES	Num.	

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]formend[TAB]fn2[TAB]#CRC16[ETX]

Printout:

```
|                               |   |                                 |
|          P O S N E T          |   |          P O S N E T            |
|  D R U K A R K A   F I S K A L N A  |   |   F I S C A L - P R I N T E R   |
|-------------------------------|   |---------------------------------|
|         123-456-78-90         |   |         123-456-78-90           |
|2007-02-19                   13|   |2007-02-19                     13|
|     N I E F I S K A L N Y     |   |      N O N - F I S C A L        |
|        POKWITOWANIE           |   |          RECEIPT                |
|ZWROT:                    AAA  |   |RETURN:                    AAA   |
|ŚRODEK PŁ.: BBBBB              |   |PAYMENT FORM: BBBBB              |
|KWOTA:                    CCC  |   |AMOUNT:                    CCC   |
|     N I E F I S K A L N Y     |   |      N O N - F I S C A L        |
|   #001   KIEROWNIK      13:54 |   |   #001   MANAGER         13:54  |
|        12345678               |   |        12345678                 |
```

Format types

2 – Postponed transactions

```
12345678901234567890123456789012345678  90

              NON-FISCAL

          PONSTPONED TRANSACTIONS                0 - header
    CONFIRMATION OF TRANSACTION REALIZATION       1 - header

Cash register: #########################          0      numerical
Transaction number: ###################           1      numerical
Cashier number: ########################          2      numerical


              NON-FISCAL
```

Remarks:
1.Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are
changed into spaces.

3 – Operator functions

```
12345678901234567890123456789012345678  90

              NON-FISCAL

      OPERATOR FUNCTIONS REPORT                   0 - header

Function ####  #########################          0      numerical, alphanumerical


              NON-FISCAL
```

Remarks:
1.Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are
changed into spaces.
2."Function" line may occur repeatedly.

4 – Cashier report

```
12345678901234567890123456789012345678  90

              NON-FISCAL

          X CASHIER REPORT                        0 - header
            Z CASHIER REPORT                      1 - header
             X CASH REPORT                        2 - header
             Z CASH REPORT                        3 - header
            CASHIER OFFLINE                       4 - header
             CASHIER ONLINE                       5 - header


RESET NUMBER: ###                                 0      numerical
CASH NUMBER # #########################           1      numerical, alphanumerical
            TOTAL SUMS                            2
POSITIVE CURRENT SUM     ##############           3      numerical
NEGATIVE CURRENT SUM     ##############           4      numerical
PREVIOUS POSITIVE SUM    ##############           5      numerical
PREVIOUS NEGATIVE SUM    ##############           6      numerical
```

```
                            -----------            7
TOTAL POSITIVE SUM       ##############          8        numerical
TOTAL NEGATIVE SUM       ##############          9        numerical
            SALE TOTALS                          10
                GOODS:                           11
##### POSITIVE ITEMS     ##############          12       numerical, numerical
##### SERVICES,OTHER     ##############          13       numerical, numerical
##### PNEGATIVE ITEMS    ##############          14       numerical, numerical
##### POS. CORRECTIONS   ##############          15       numerical, numerical
##### NEG. CORRECTIONS   ##############          16       numerical, numerical
##### SHOP COUPON        ##############          17       numerical, numerical
GOODS SUBTOTAL           ##############          18       numerical
TAX SUBTOTAL             ##############          19       numerical
DISC / SURCHARGE                                 20
HEJ HEM DISCOUNT         ##############          21       numerical
DISC / SURCHARGE         ##############          22       numerical
DISC / SURCHARGE         ##############          23       numerical
EMPLOYEE DISCOUNT        ##############          24       numerical
DISC. SUBTOTAL/SUBSIDIES ##############          25       numerical
                            -----------          26
TOTAL NET SALES          ##############          27       numerical
          PAYMENT FORM TOTAL                     28
             PAYMENT FORM                         29
PAYMENT FORM:  ### ############  #######         30       num, letter, letter, num
##### AMOUNT             ##############          31       numerical, numerical
##### COLLECTION         ##############          32       numerical, numerical
##### IN CIRCULATION     ##############          33       numerical, numerical
#### START IN CIRC.      ##############          34       numerical, numerical
#### TYP PŁ. NR 2        ##############          35       numerical, numerical
PAYMENT SUBTOTAL         ##############          36       numerical, numerical
          PAYMENT FORM CORRECTION                37
##### ADD. BANK. FUNCT.  ##############          38       numerical, numerical
##### RED. BANK. FUNCT.  ##############          39       numerical, numerical
##### APPROX. SETTINGS   ##############          40       numerical, numerical
##### PAY. PART SAVE     ##############          41       numerical, numerical
##### PAY. PART RESTORE  ##############          42       numerical, numerical
##### PAYMENTS           ##############          43       numerical, numerical
PAYMENT CORR. SUBTOTAL   ##############          44       numerical
                            ------------         45
TOTAL PAYMENT FORMS      ##############          46       numerical
             OTHER SUMS                          47
##### POSITIVE DISCOUNTS ##############          48       numerical, numerical
##### NEGATIVE DISCOUNTS ##############          49       numerical, numerical
##### ERROR CORRECTIONS  ##############          50       numerical, numerical
##### RETURNS TOTAL      ##############          51       numerical, numerical
##### COST RETURNS       ##############          52       numerical, numerical
##### ANNULLED FUNDS     ##############          53       numerical, numerical
##### SALES ITEMS        ##############          54       numerical, numerical
##### COLLECTIVE DISC.   ##############          55       numerical, numerical
##### CALCELLED SALES    ##############          56       numerical, numerical
##### STORED SALES       ##############          57       numerical, numerical
##### ANNULLED SALES     ##############          58       numerical, numerical
##### RESTORED SALES     ##############          59       numerical, numerical
##### PAYM.FORM CHANGE   ##############          60       numerical, numerical
##### WITHOUT TAX        ##############          61       numerical, numerical
##### EXEMPTED AMOUNT    ##############          62       numerical, numerical
##### OVERPAID VAT RETURN##############          63       numerical, numerical
##### ISSUED MARKS       ##############          64       numerical, numerical

##### ITEMS FROM KEYBAORD######%                 65       numerical, numerical
##### SCANNED ITEMS      ######%                 66       numerical, numerical
##### WEIGHED ITEMS      ######%                 67       numerical, numerical
TOTAL WEIGHED ITEMS      ##############          68       numerical


##### POSITIVE TRANSACTONS                       69       numerical, numerical
##### OVERPAID CASH RETURN                       70       numerical, numerical
##### OTHER TRANSACTIONS                         71       numerical, numerical
##### OPENING DRAWER                             72       numerical, numerical
##### CURRENT SUM                                73       numerical, numerical
##### NUMBER OF CIENTS                           74       numerical, numerical

##:## CASHIER WORK TIME                          75       numerical, numerical
##:## TEMP. CASH SHUTDOWN                        76       numerical, numerical
##:## GOODS INSERTING TIME                       77       numerical, numerical
##:## PAYMENT TIME                               78       numerical, numerical
##:## DRAWER OPENING TIME                        79       numerical, numerical
```

```
                    NON-FISCAL
```

Remarks:
1.Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are changed into spaces.
2.Letter parameters may include: letters, special signs, max. 3 digits. Redundant digits are changed into spaces.
3.Report lines may occur repeatedly.

5 – Payment form report

```
12345678901234567890123456789012345678790

                NON-FISCAL

        PAYMENT FORM REPORT                     0 - header
            CASHIER ########                    0       numerical

PAYMENT FORM.##:  ### ############  #######     1       num, letter, letter, num
##### AMOUNT            ##############          2       numerical
##### COLLECTED         ##############          3       numerical
##### IN CIRCULATION    ##############          4       numerical
##### START IN CIRC.    ##############          5       numerical

PAYMENT FORM SUBTOTAL   ##############          6       numerical

                NON-FISCAL
```

Remarks:
1.Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are changed into spaces.
2.Letter parameters may include: letters, special signs, max. 3 digits. Redundant digits are changed into spaces.
3.Report lines may occur repeatedly.

6 – Sales registered in cash register

```
12345678901234567890123456789012345678790

                N0N-FISCAL

        SALES REGISERED IN CASH REGISTERED          0 - header

CASH NUMBER # ###                                   0       numerical, napisowy

SALES SUBTOTAL         ###############              1       numerical
SALES RECEPIT SUB.     ###############              2       numerical
DISC/ SURCH. SUBTOTAL  ###############              3       numerical
                       ---------------              4
TOTAL SALE             ###############              5       numerical

                NON-FISCAL
```

Remarks:
1.Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are changed into spaces.
2.Letter parameters may include: letters, special signs, max. 3 digits. Redundant digits are changed into spaces.

7 – Receipt

```
12345678901234567890123456789012345678901234567890

            NON-FISCAL

            RECEIPT                          0 - header

RETURN: ##############################       0      numerical
PAYMENT FORM: ##########################      1      letter
AMOUNT: ##############################       2      numerical
ACCOUNT: #############################       3      numerical

SIGNATURE: .............................      4

            NON-FISCAL
```

Remarks:
1.Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are changed into spaces.
2.Letter parameters may include: letters, special signs, max. 3 digits. Redundant digits are changed into spaces.

8 – Payment confirmation

```
12345678901234567890123456789012345678901234567890

            NON-FISCAL

        PAYMENT CONFIRMATION                 0 - header

TO SALES DOCUM.:  #####################       0      numerical
PAYMENT FORM.: #######################       1      letter
ACCOUNT: #############################       2      numerical
AMOUNT: ##############################       3      numerical
PAYMENT:          #####################       4      numerical
CHANGE:     #######################          5      numerical
                NON-FISCAL
```

Remarks:
1.Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are changed into spaces.
2.Letter parameters may include: letters, special signs, max. 3 digits. Redundant digits are changed into spaces.
3.Report lines may occur repeatedly.

9 – Gift voucher

```
12345678901234567890123456789012345678901234567890

            NON-FISCAL

        GIFT VOUCHER                          0 -header

*** REALIZED ***                              0
Amount: ##############################        1
Cashier: #############################        2
Date: ########## Hour:  ###############       3
Shop: ##############################          3
```

```
                  NON-FISCAL
```

Remarks:
1. In line 2 cashier name from printer ("MANAGER" or logged in cashier).
2. In line 3 parameter 3 is alphanumerical (shop number or name).
3. Other parameters are numerical.
4. Line 3 results in two printed lines.

10 – Credit note

```
1234567890123456789012345678901234567890


                  NON-FISCAL

          CREDIT NOTE                     0 -header

*** REALIZED ***                          0

Amount: ##############################    1
Cashier:##############################    2
Date: ########## Hour:  ###############    3
Shop: ##############################      3


                  NON-FISCAL
```

Remarks:
5. In line 2 cashier name from printer ("MANAGER" or logged in cashier).
6. In line 3 parameter 3 is alphanumerical (shop number or name).
7. Other parameters are numerical.
8. Line 3 results in two printed lines.

11 – Credit note

```
1234567890123456789012345678901234567890


                  NON-FISCAL

          CREDIT NOTE                     0 -header

Amount: ##############################    0
In words: ##############################  1
Return No.: ###########################   2
Cashier: #############################    3
Date: ########## Hour.: ###############   4
Shop:##############################       4

                  NON-FISCAL
```

Remarks:
1. In line 1 alphabetical parameter
2. In line 3 cashier name from printer ("MANAGER" or logged cashier).
3. In line 4 parameter 3 is alphanumerical (shop number or name).
4. Other parameters are numerical.
5. Line 4 results in dwo printing lines.

12 – Discount coupon

```
12345678901234567890123456789012345678 90


              NON-FISCAL

          DISCOUNT COUPON                 0 -header

*** REALIZED ***                         0

Amount: ############################     1
Cashier: ###########################     2
Date: ########## Hour.: ###############   3
Shop:#############################        3


              NON-FISCAL
```

Remarks:
1. In line 2 cashier name from printer ("MANAGER" or logged cashier).
2. In line 3 parameter 3 is alphanumerical (shop number or name).
3. Other parameters numerical.
4. Line 3 results in two printing lines.

13 – Cash on delivery

```
12345678901234567890123456789012345678 90


              NON-FISCAL

        CASH ON DELIVERY               0 -header

*** REGISTERED SALES ***               0

Id number:       ###################     1
Amount: ############################     2
Cashier: ###########################     3
Date: ########## Hour:  ###############   4
Shop: ############################        4


              NON-FISCAL
```

Remarks:
```
    1. In line 3 cashier name from printer ("MANAGER" or logged cashier).
    2.  In line 4 parameter 3 is alphanumerical (shop number or name).
    3.  Other parameters numerical.
    4.  Line 4 results in two printing lines.
```

14 – Banking transfer

```
12345678901234567890123456789001234567890

            NON-FISCAL

            BANKING TRANSFER                0 -header

*** REALIZED ***                            0

Client NUMBER: #########################    1
Amount: ##############################      2
Balance: #############################      3
Cashier: #############################      4
Date: ######### Hour:   ###############     5
Shop: ################################      5

            NON-FISCAL
```

Remarks:
```
1. In line 4 cashier name from printer ("MANAGER" or logged cashier).
2. In line 5 parameter 3 is alphanumerical (shop number or name).
3. Other parameters numerical.
4. Line 5 results in two printing lines.
```

15 – Gift voucher sale confirmation

```
12345678901234567890123456789001234567890

            NON-FISCAL

   Gift voucher sales confirmation          0 -header

Voucher value: #######################      0
Name:  ##############################       1
Cashie: #############################       2
Date: ######### Hour:   ###############     3
Shop: ################################      3

            NON-FISCAL
```

Remarks:
```
1. In line 1 aphabetical parameter
2. In line 2 cashier name from printer ("MANAGER" or logged cashier).
```

3. In line 3 parameter 3 is alphanumerical (shop number or name).
4. Other parametdrs numerical.
5. Line 3 results in two printing lines.

16 – Employee discount

```
12345678901234567890123456789012345678901234567890

            NON-FISCAL

        EMPLOYEE DISCOUNT                           0 - header

Employee discount: #####################           0      numerical
Employee number:   #####################           1      numerical
AMOUNT: ###############################            2      numerical

SIGNATURE: ............................            3

            NON-FISCAL
```

Remarks:
1.1. Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are
changed into spaces.
2.2. Letter parameters may include: letters, special signs, max. 3 letters. Redundant digits are
changed into spaces.

17 – Payment form exchange

```
12345678901234567890123456789012345678901234567890

            NON-FISCAL

        PAYMENT FORM EXCHANGE                       0 - header

FROM:     ################################         0      alphanumerical
TO:       ################################         1      alphanumerical

            NON-FISCAL
```

18 – Cash operations

```
12345678901234567890123456789012345678901234567890

            NON-FISCAL

        CASH OPERATION                              0 - header

OPERATION ###: #######################             0 numerical, alphanumerical

            NON-FISCAL
```

Remarks:
1. Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are
changed into spaces.
2. 'Operation' line can occurr repeatedly.

19 – Cash errors

```
12345678901234567890123456789012345678 90

                NON-FISCAL

                CASH ERRORS                        0 - header

CRITICAL ERROR                                     0
    Service : #########################           1       alphanumerical
     Device : ####################                2       alphanumerical
Add. device   : ###################               3       alphanumerical
     Funtion : ######################             4       alphanumerical
Subfunction : #########################           5       alphanumerical
Register # : #########################            6       numerical, alphanumerical
Trans   # : #########################             7       numerical, alphanumerical
Error code : #########################            8       alphanumerical

                NON-FISCAL
```

REMARKS:
1. None of parameters is controlled by printer.

20 – Price list

```
12345678901234567890123456789012345678 90

                NON-FISCAL

                PRICE LIST                         0 - header
  PROCE CHANGE                                     1 - header
  SALES STATISTICS                                 2 - header
  TRANSACTION CONFIRMATION                         3 - header

SHOP    #######################                    0       alphanumerical
DATE    ########  ########                         1       numerical, numerical

Item code: ############ Price: ########,##         2       num, num, num
Item code: ############ Date:  ##########          3       num, num, num
Price1:  ########,##   Price2:  ########,##         4       num, num, num, num
Quantity:                ##########                5       numerical

                NON-FISCAL
```

REMARKS:
1.Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are changed into spaces.

21 – Giving out gift voucher

```
                NON-FISCAL

     GIVING OUT GIFT VOUCHER           0 - header

BON UPOMINKOWY:        ###############   0       numerical
NUMER BONU:         ##################   1       alphanumerical
TOTAL:               #############       2       numerical
PAYMENT FORM: ########################   3       alphanumerical
AMOUNT: ###############################  4       numerical
ACCOUNT: ##############################  5       numerical
CHANGE:     ##########################   6       numerical

   NON-FISCAL
```

1. Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are changed into spaces..

2. Report lines can occur repeatedly.

22 – Payment card transaction confirmation

```
                NON-FISCAL

Payment card transation confirmation      0 - header
   Bill payment confirmation              1 - header
              Receipt                     2 - header
    Crediting transaction receipt         3 - header
      Cancellation confirmation           4 - header
   Authorisation reject confirmation      5 - header
     Pre-authorization confirmation       6 - header
         Declination confirmation         7 - header
        Transaction confirmation          8 - header
         Cancellation confirmation        9 - header
    Pre-authorization confirmation       10 - header
         Declination confirmation        11 - header


Cash reg.: ###      Cashier: #######      0 alphanumerical
Sales document number###############      1 alphanumerical
Transaction No.      ###############      2 alphanumerical
TID: ########     UID: ###############    3 alphanumerical
TID: ########     MID: ###############    4 alphanumerical
Bill nr payment: ###################      5 alphanumerical
For: #################################    6 alphanumerical
Client No.: ##########################    7 alphanumerical
Card:  ##########################         8 alphanumerical
####################   Ważna do: ##/##     9 alphanumerical
Sales:      PLN ###################       10 alphanumerical
Crediting:   PLN ###################      11 alphanumerical
Cash:        PLN ###################      12 alphanumerical
In words: #########################       13 alphanumerical
          #############################   14 alphanumerical
Commission:     PLN #################      15 alphanumerical
total to be paid: PLN ################     16 alphanumerical
Authorisation code:  ###############      17 alphanumerical
Transaction points number:   #########    18 alphanumerical
Points number after transaction: #######  19 alphanumerical
Amount on card:       #############        20 alphanumerical
Please, charge my accocunt                21 alphanumerical
Please, credit my account                 22 alphanumerical
       Transaction cancelled              23 alphanumerical
         CORRECT PIN CODE                  24 alphanumerical


         ......................           25 alphanumerical
         card owner's signature           26 alphanumerical
           cashier's signature            27 alphanumerical
           client's signature             28 alphanumerical
              ORIGINAL                     29 alphanumerical
               COPY                        30 alphanumerical
Sales:      ### ###################       31 alphanumerical
Crediting:   ### ###################      32 alphanumerical
Cash:        ### ###################      33 alphanumerical
Commission:     ### #################     34 alphanumerical
Total to be paid: ### ################    35 alphanumerical
AID:   ###########################        36 alphanumerical
TC:  ###############################      37 alphanumerical
AAC: ###############################      38 alphanumerical
PSN: ###############################      39 alphanumerical
ATC: ###############################      40 alphanumerical
ARC: ###############################      41 alphanumerical
AAA: ##########        TD:###########     42 alphanumerical
TAC DEFAULT: #######################      43 alphanumerical
TAC DENIAL: ########################      44 alphanumerical
TAC ONLINE: ########################      45 alphanumerical
IAC DEFAULT: #######################      46 alphanumerical
IAC DENIAL: ########################      47 alphanumerical
IAC ONLINE: ########################      48 alphanumerical
Commercial Code ##########: ###########   49 alphanumerical
Additional data: ###################      50 alphanumerical
Id number: …........................... 51
Authorization Center:################### 52 alphanumerical
```

```
    AUTHORISATION REJECT CONFIRMATION      53
            TRANSACTION REJECTED           54
System message:     ################## 55 alphanumerical
Payment:       ### ################### 56 alphanumerical
Total:         ### ################### 57 alphanumerical
Return:        ### ################### 58 alphanumerical
Cashback:      ### ################### 59 alphanumerical
Cash:          ### ################### 60 alphanumerical
SALE:          ### ################### 61 alphanumerical
REFUND:        ### ################### 62 alphanumerical
FX RATE: ############################# 63 alphanumerical
TRANSACTION CURRENCY: ################# 64 alphanumerical
DCC service provided by: ############## 65 alphanumerical
REJECTION RECEIPT TRANSACTION WAS       66
REJECTED SYSTEM MESSAGE: ############## 67 alphanumerical
  CANCELLATION RECEIPT TRANSACTION WAS  68
            CANCELED                     69
           PIN VERIFIED                  70
           SIGNATURE                     71
Pre-authoris:  ### #################### 72 alphanumerical
Acquirer/Processor: ################### 73 alphanumerical
Ecr no: ###          Cashier: ####### 74 alphanumerical
Receipt number:        ############## 75 alphanumerical
Transaction number:    ############## 76 alphanumerical
Invoice number:     ################## 77 alphanumerical
For: ################################# 78 alphanumerical
Client number: ####################### 79 alphanumerical
Card: ################################ 80 alphanumerical
###################  Valid date: ##/## 81 alphanumerical
Pre-auth:      ### #################### 82 alphanumerical
Sale:          ### #################### 83 alphanumerical
Refund:        ### #################### 84 alphanumerical
In words: ############################ 85 alphanumerical
Statement: ########################### 86 alphanumerical
Commission:       ### ################# 87 alphanumerical
Total amount:     ### ################# 88 alphanumerical
Authorization code: ############       89 alphanumerical
Points for transaction:    ########### 90 alphanumerical
Points after transaction:  ########### 91 alphanumerical
Amount on the card:     ############## 92 alphanumerical
System message: ###################### 93 alphanumerical
Commercial Code ###################### 94 alphanumerical
Extra data: ########################## 95 alphanumerical
Document ID: ......................... 96 alphanumerical


                NON-FISCAL
REMARKS:
1. All parameters alphanumerical.
2. All lines can be moved and duplicated.
```

23 – GSM number charge confirmation

```
            NON-FISCAL

  GSM number charge confirmation       0 - header
  Number correctness confirmation      1 - header
  Electronic purchase confirmation     2 - header
  Electronic coupon                    3 - header

Cash: ###         Cashier: #######     0 alphanumerical, alphanumerical
Sales document No. : ##############     1 alphanumerical
Charging code: ######################  2 alphanumerical
For:   ############################### 3 alphanumerical
Phone number:   #########              4 alphanumerical
Confirmation of charging by SMS        5
PLN Value:             ##########      6 alphanumerical
Correctn phone number confirmed        7
        ....................           8
        client's signature             9
Pre-paid brand: #####################  10 alphanumerical
Account id: ########################## 11 alphanumerical
Reference number:   ################## 12 alphanumerical
```

```
Serial number: ####################### 13 alphanumerical
Expiry date:   ##########               14 alphanumerical
In.:################################### 15 alphanumerical
REMARKS:
1. All parameters alphanumerical.
2. Lines can not be moved and duplicated.
3. Each character of charging code is pronted on a format copy as "*".
```

24 – Currency purchase confirmation

```
            NON-FISCAL

     Currency purchase confirmation     0 - header

Cash: ###        Cashier: #######    0   alphanumerical,alphanumerical
Sales document No.: ###############   1   alphanumerical
Currency purchase:     #### ##########  2   alphanumerical,alphanumerical
Currency purchase rate: ###############  3   alphanumerical
PLN value:              ##########  4   alphanumerical
In words: #########################  5   alphanumerical
          #########################  6   alphanumerical


            NON-FISCAL
REMARKS:
1.All parameters aphanumerical.
2.Lines can not be moved and duplicated.
```

25 – Discount voucher

```
            NON-FISCAL

        DISCOUNT VOUCHER              0 - header
          LIST OF GOODS               1 - header

Shop:###  Kash reg.: ###  Cashier: ##### 0  alphanumerical, alphanumerical
Sales document number: ################ 1  alphanumerical
AWARDED GOODS             BONUS AMOUNT 2
GOODS:###################   ##########  3  alphanumerical, alphanumerical
TOTAL                     ##########  4  alphanumerical, alphanumerical
BONUS: #############                  5  alphanumerical
BONUS: ############################## 6  alphanumerical
VALID: ############################### 7 alphanumerical

            NON-FISCAL

REMARKS:
1.All lines can be moved and duplicated.
```

26 – Shift report

```
            NON-FISCAL


        SHIFT REPORT              0
Shift:          #################### 0  alphanumerical
Cashier:        #################### 1  alphanumerical
INCOME:         #################### 2  numerical
Cash sales:     #################### 3  numerical
Card ###############: ############### 4  alphanumerical, numerical
Check ##############:  ############### 5  alphanumerical, numerical
Vouch ##############:   ############### 6  alphanumerical, numerical
```

```
Payment to cash reg.:  ################ 7  numerical
Containers gave out: ################# 8  numerical
EXPENSES:        #################### 9  numerical
Withdrawals from cash:  ############### 10 numerical
Container returns: #################### 11 numerical
SETTLEMENT                            12
Cash:           #################### 13 numerical
Card ###############: ############### 14 alphanumerical, numerical
Check ##############: ############### 15 alphanumerical, numerical
Voucher ############:  ############## 16 alphanumerical, numerical
Containers:      #################### 17 numerical
TOTAL                                18
CASH STATE:      #################### 19 numerical
RECEIPT NUMBER:  #################### 20 numerical
CANCELLED RECEIPTS NUMBER:  ########### 21 numerical
Cancelled items number:     ########### 22 numerical
Shift start:          ############ 23 alphanumerical
Shift end:            ############ 24 alphanumerical

               NON-FISCAL
REMARKS:
1.All lines can be moved and duplicated.
```

27 – Account settlement

```
          NON-FISCAL

         Account settlement          0 - header
           Gift card balance         1 - header
               Gift card             2 - header
      Card payment confirmation      3 - header
        Payment form exchange        4 - header
       Account settlement##########  0 alphanumerical
Account state before transaction: ######  1 alphanumerical
Granted bonus:         #########  2 alphanumerical
Used:                  #########  3 alphanumerical
Account state after trans.:  #########  4 alphanumerical
Item no.:   ########     #########  5 numerical
Card name:      ###################  6 literowy
Card number:       #################  7 numerical
Authorization number:        #####  8 numerical
Card expiry date:   ##########     9 numerical
Card balance:      ##############  10 numerical
EGRC - Charged        #########  11 numerical
EGRC Card  ##############    #########  12 alphanumerical, numerical
Payment form Gave out ####    #########  13 alphanumerical, numerical

               NON-FISCAL

REMARKS:
1.All lines can be moved and duplicated.
```

28 – Cash register/cashier report

```
          NON-FISCAL

         CASHIER REPORT             0 - header
          SHORT REPORT              1 - header
         Payment forms             0
Cleint's account      : ###########  1
Routex                : ###########  2
LOMO                  : ###########  3
DKV                   : ###########  4
UTA                   : ###########  5
Routex Manual         : ###########  6
LOMO Manual           : ###########  7
DKV Manual            : ###########  8
UTA Manual            : ###########  9
```

```
Bank card and T&E        : ############ 10
Checks            :        ############ 11
Vouchers          :        ############ 12
Cash in PLN       :        ############ 13
Transf. For. Curr.:        ############ 14
TORAL                     ############# 15
                Income                  16
Opening amount    :        ############ 17
Sales             :        ############ 18
Payment           :        ############ 19
Crediting an acc. :        ############ 20
Collection discr. :        ############ 21
TOTAL                     ############# 22
                Expenses                23
Returns           :        ############ 24
Withdrawals       :        ############ 25
Closing amount    :        ############ 26
TOTAL                     ############# 27
          Payments in PLN               28
Checks in safe    :        ############ 29
Checks in cash reg:        ############ 30
TOTAL                     ############# 31
Vouch in safe     :        ############ 32
Vouch in cash reg.:        ############ 33
TOTAL                     ############# 34
Cash in safe      :        ############ 35
Cash in cash reg. :        ############ 36
TOTAL                     ############# 37
        Payments in for. curr.          38
DM in safe        :        ############ 39
DM in cash reg.   :        ############ 40
TOTAL                     ############# 41
USD in safe       :        ############ 42
USD in cash reg.  :        ############ 43
TOTAL                     ############# 44
GBP in safe       :        ############ 45
GBP in cash reg.  :        ############ 46
TOTAL                     ############# 47
                Safe                    48
          Box No.        ####           49
Cash in  PLN      :        ############ 50
Checks            :        ############ 51
Voucher           :        ############ 52
DM                :        ############ 53
USD               :        ############ 54
GBP               :        ############ 55
        Cashier settlement              56
Check in cash reg.:        ############ 57
Checks counted    :        ############ 58
DISCREPANCY                ############ 59
Vouch.in cash reg.:        ############ 60
Counted Vouch.    :        ############ 61
DISCREPANCY                ############ 62
Cash in PLN       :        ############ 63
Cash counted      :        ############ 64
DISCREPANCY                ############ 65
DM in cah reg.    :        ############ 66
DM counted        :        ############ 67
DISCREPANCY                ############ 68
USD in cash reg.  :        ############ 69
USD counted       :        ############ 70
DISCREPANCY                ############ 71
GBP in cash reg.  :        ############ 72
GBP counted       :        ############ 73
DISCREPANCY                ############ 74
Shift closed                            75
Shift No. ###                           76
Cashier:          ################### 77 letter


                NON-FISCAL
REMARKS
1.All lines can be moved and duplicated.
2.In line 77 letter parameter, other parameters numerical.
```

29 – Payment/withdrawal

```
                NON-FISCAL

             PAYMENT RECEIPT          0 - header
            WITHDRAWAL RECEIPT        1 - header
               Number:######           0
To whom          ##################  1
PAYMENT/WITHDRAWAL TITLE              2
Advanced payment to par.no.#########  3
Collateral           ############    4
Te bo invoiced       ############    5
Coins                ############    6
Payment 1            ############    7
Payment 2            ############    8
Safe                 ############    9
Withdrawal 1         ############    10
Withdrawal 2         ############    11
To bank              ############    12
Coins                ############    13
Withdrawal           ############    14
Total                ############    15
        I obtained the above value   16
       -------------------------     17
                SIGNATURE            18

                NON-FISCAL
Remarks:
1.Line 1 letter parameter, other parameters numerical.
2.All lines can be moved and duplicated.
```

30 – Counter state

```
                NON-FISCAL

             COUNTER STATES           0 - header
Pump  ## ##### stan ################lit. 0
 Counters in general                 1
Fuel   #############################lit. 2

                NON-FISCAL

Remarks:
1.In all lines numerical paremeter occurrs.
2.All lines can be moved and duplicated.
```

31 – Refuel report

```
                NON-FISCAL

            REFUEL REPORT             0 - header
No. Sort   Cont. vol. Reserve  Alarm   0
## ########## ########  ##### ########  1

                NON-FISCAL

Remarks:
1.All parameters numerical
2.All lines can be moved and duplicated..
```

32 – Card payment confirmation

```
                NON-FISCAL

             CREDIT CARD              0 - header
Transaction number: #####            0 numerical
Date: ######## Hour: ####            1 numerical
```

```
Card name:   ################          2 alphanumerical
Card number: ###################       3 numerical
Card transaction: ######               4 numerical
Authorization number: ######           5 numerical
Authorisation Id:     #######          6 numerical
In. Name           mu   Quantity       7
## #############       ### #######      8 num., lit., alphanum., num.
AMOUNT: ##########                      9
......................................  10
            signature                   11
Owner:     ######################       12 alphanumerical
Id data:   #######################      13 alphanumerical
Id data:   #######################      14 alphanumerical
Course:    ###############              15 numerical
Driver code : ##########                16 numerical
Reg. No.: ################              17 alphanumerical

            NON-FISCAL
```

Remarks:
1.All lines can be moved and duplicated.

33 – Currency in safe

```
            NON-FISCAL


            CURRENCY IN SAFE          0 - header
TOTAL CASH IN SAFE      :   ########## 0
### ########## IN SAFE  :   ########## 1
TOTAL CHECKS IN SAFE    :   ########## 2
TOTAL VOUCHERS IN SAFE  :   ########## 3
TOTAL IN SAFE           :   ########## 4
BOX NUMBER      ###############        5

            NON-FISCAL
```

Remarks:
1.All lines – numerical parameter
2.All lines can be moved and duplicated.


```
34 – Fuel alarm report

            NON-FISCAL


        FUEL ALARM REPORT           0 - header
Container No.     #######            0
Fules description ###########        1
ALARM TYPE:                         2
#############################        3
#############################        4
#############################        5
DATE #############                  6
TIME #########                      7
```

Remarks:
1.All lines numerical

35 – Car wash ticket

```
            NON-FISCAL


            CAR WASH TICKET          0 - header
VALID FOR  ##  PROGRAM NO. ##  ZŁ ###### 0
   IN ORDER TO START CAR WASH INSERT    1
            PROGRAM CODE               2
C O D E : # # # # # # # # # # # # # #  3
ISSUED ON     ############ TIME ####### 4
        WE INVITE YOU TO US             5
            OUR CAR WASH                6
```

```
            NON-FISCAL
```

Remarks:
1.Line 3 – double width, centered
2.Random code parameter,other parameters numerical
3.All lines can be moved and duplicated.
36 – Fuel state report

```
            NON-FISCAL

        CONTAINER STATE REPORT          0 - header
MODULE:###POSITIONS:###PROBE NR.####    0 alphanum., numerical, numerical
DESCRIPTION: #########################   1 alphanumerical
PRODUCT: ############################    2 letter
                    LEVEL     VOLUME     3
                     (CM)      (LTR)     4
VOLUME            ########## ###########  5
 PRODUCT    :     ########## ########### 6
 WATER      :     ########## ########### 7
 TOTAL      :     ########## ########### 8
TEMPERATURE CORRECTION                   9
 PRODUCT    :     ####################### 10
 WATER      :     ####################### 11
 TOTAL      :     ####################### 12
MAX.FILLING LEVEL: #################### 13
MAX.T BE FILLED:    #################### 14
AVERAGE PRODUCT TEMPERATURE:  ######### 15


            NON-FISCAL
```

Remarks:
1.Fields without description are of numerical type.
2.All lines can be moved and duplicated.

37 – Fuel supply report

```
            NON-FISCAL

        FUEL SUPPLY REPORT              0 - header
CONTAINER: #######                      0
MARKING: #####    PRODUCT: ###########  1
 SUPPLY REPORT – STABLE                 2
 BEFORE SUPPLY                          3
  PRODUCT VOLUME:     #################  4
  WATER VOLUME:       #################  5
  VOLUME TO BE FILLED: ################  6
  PRODUCT TEMPERATURE:  ###############  7
 AFTER SUPPLY                           8
  PRODUCT VOLUME:     #################  9
  WATER VOLUME:       ################# 10
  MAX. TO BE FILLED: ################## 11
  TEMPERATURA PRODUKTU: ############### 12
 DOSTAWA                                13
  DATE: ########### TIME: ############# 14
  OBJĘTOŚĆ:           ################# 15
  TEMPERATURE         ################# 16
  NET SUPPLY(15C):    ################# 17
  PRODUCT TEMPERATURE: ############### 18
  ACCOUNTING SUPPLY VOL.:############## 19
  DISCREPANCY:        ################# 20


            NON-FISCAL
```

Remarks:
1.All lines of numerical type
2.All lines can be moved and duplicated.

38 – BP partnerclub shift report

```
            NIEFISKALNY

        BP partnerclub                  0 - header
No. of terminal        name of station  0
```

```
#########        #################### 1 numerical, letter
Following No.            ############# 2
Terminal code           ############# 3
Operator         ##################### 4
Init. time                 ######### 5
Init. date              ############# 6
Fin. time                  ######### 7
Fin. Date               ############# 8
Tariff   PKT man.  TR. man.          9
TAR ##:         ######################## 10
% Issued         #################### 11
Sold litres      #################### 12
Gave out literd  #################### 13
DAR              #################### 14
Exchanged points #################### 15
Loaded points    #################### 16
Trans. Issued    #################### 17

              NON-FISCAL
Remarks:
1.Lines must occur in a defined order.
2.Line 10 (TAR) can me multiplicated.
3.In line 1 there is a letter parameter, other parameters are numerical.
```

39 – Gift confirmation

```
              NON-FISCAL

          BP partnerclub         0 - header
No. of terminal        name of station 0
#########        #################### 1 numerical, letter
Number ######### Gisft number   ####### 2
Points for gift         ############# 3
Total points for gift   ############# 4
Card number    ####################### 5
Initial points          ############# 6
Cancelled points        ############# 7
Total new points        ############# 8
Name  ############################### 9 letter
Thank you. See you soon.           10
No. of terminal         ############# 11
Seller code             ############# 12
Date   ############ Cashier No.####### 13
Time                    ########## 14

              NON-FISCAL

Remarks:
1.Lines must occur in the defined order.
2.In line 1 and 9 there is a letter parameter,other parameters are numerical.
```

40 – Conformation of giving out a gift

```
              NON-FISCAL
          BP partnerclub         0 - header
Time  ########## Date ############### 0
Quantity ####### Gift number ########### 1
Points for gift      ################# 2
Total points for giftsek  ############# 3
Name  ############################### 4

              NON-FISCAL
Remarks:
1.Line 4 is letter parameter, other lines are numerical.
2. All lines can be moved and duplicated.
```

41 – Order

```
                NON-FISCAL
                ORDER                          0 - header
Waiter: ############################## 0  alphanumerical
Table:  ############################## 1  alphanumerical
- - - - - - - - - - - - - - - - - - - 2
Goods: ############################### 3  alphanumerical
Dscription: ########################## 4  alphanumerical
Quantity: ############################ 5  alphanumerical


                NON-FISCAL
Remarks:
1.All lines can be moved and duplicated
2.Up to 50 items can be placed on one gift voucher
```

42 – Confirmation /Report /Voucher

```
     P O T W I E R D Z E N I E          0 - header              C O N F I R M A T I O N
            R A P O R T                  1 - header              R E P O R T
               B O N                     2 - header              V O U C H E R
Potwierdzenie ######################## 0  alphanumerical         Confirmation
Raport ############################### 1  alphanumerical         Report
Pokwitowanie ######################### 2  alphanumerical         Receipt
Bon ################################## 3  alphanumerical         Voucher
Wydruk ############################### 4  alphanumerical         Printout
Tytuł ################################ 5  alphanumerical         Title
Część ################################ 6  alphanumerical         Part
Blok ################################# 7  alphanumerical         Block
Kasjer ################ Kasa ######### 8  alphanumerical         Cashier  Cash register
Data ############### Godzina ######### 9  alphanumerical         Date      Hour
Opis ################################# 10 alphanumerical         Description
Nazwa ################################ 11 alphanumerical         Name
Numer ################################ 12 alphanumerical         Number
Tytułem ############################## 13 alphanumerical         By virtue of
Kod ################################## 14 alphanumerical         Code
Liczba ############################### 15 alphanumerical         Figure
Typ ################################## 16 alphanumerical         Type
Stan ################################# 17 alphanumerical         State
Zmiana ############################### 18 alphanumerical         Change
Z #################################### 19 alphanumerical         From
Na ################################### 20 alphanumerical         To
Konto ################################ 21 alphanumerical         Account
Kurs ################################# 22 alphanumerical         Exchange rate
Operator ############################# 23 alphanumerical         Operator
Dla ################################## 24 alphanumerical         For
Klient ############################### 25 alphanumerical         Client
cd. ################################## 26 alphanumerical         cont.
Ilość ################################ 27 alphanumerical         Quantity
Wpłata ############################### 28 alphanumerical         Payment
Wypłata ############################## 29 alphanumerical         Withdrawal
Opłata ############################### 30 alphanumerical         Fee
Dopłata ############################## 31 alphanumerical         Subsidy
Przedpłata ########################### 32 alphanumerical         Advance payment
Prowizja ############################# 33 alphanumerical         Commission
Odsetki ############################## 34 alphanumerical         Interest
Kwota ################################ 35 alphanumerical         Amount
Przychody ############################ 36 alphanumerical         Incomes
Rozchody ############################# 37 alphanumerical         Expeces
Sprzedaż ############################# 38 alphanumerical         Sales
Uznanie ############################## 39 alphanumerical         Crediting
Saldo ################################ 40 alphanumerical         Balance
Gotówka ############################## 41 alphanumerical         Cash
Opakowanie ########################### 42 alphanumerical         Container
Rabat ################################ 43 alphanumerical         Discount
Narzut ############################### 44 alphanumerical         Surcharge
Promocja ############################# 45 alphanumerical         Promotion
Premia ############################### 46 alphanumerical         Bonus
```

```
Płatność ############################## 47 alphanumerical          Payment
Forma ################################ 48 alphanumerical          Form
Środek płat. ######################### 49 alphanumerical          Payment form
          Transakcja anulowana        50 NONE          Cancelled transaction
      Proszę obciążyć moje konto      51 NONE          Please, charge my account
        Proszę uznać moje konto       52 NONE          Please, credit my account
               Oryginał               53 NONE          Original
                 Kopia                54 NONE          Copy
          ....................        55 NONE
Podpis ############################### 56 alphanumerical          Signature
Sprawdził ############################ 57 alphanumerical          Verified by
Zatwierdził ########################## 58 alphanumerical          Confirmed by
```

Płatność ############################## 47 alphanumerical   Payment
Forma ################################ 48 alphanumerical   Form
Środek płat. ######################### 49 alphanumerical   Payment form

Data base control

[dbchkstart] Data base control initialization

Command Id:
dbchkstart

Input parameters:

Name	Description	Required	Type	Remarks
ty	1 – PLU data base control report 2 – blocked goods report	YES	Num.	

Device response:
standard

Remarks:
The sequence is connected with sequences dbchkline, dbchkend.
Availability in read only mode: NO

Przykład:
[STX]dbchkstart[TAB]ty1[TAB]#CRC16[ETX]

Printout:
Przykładowy wydruk kontroli bazy

```
|          P O S N E T          |     |          P O S N E T          |
|  D R U K A R K A  F I S K A L N A  |  | F I S C A L   P R I N T E R   |
|-------------------------------|     |-------------------------------|
|        NIP 000-000-00-02      |     |        NIP 000-000-00-02       |
|2004-05-08              110|         |2004-05-08              110|
|     N I E F I S K A L N Y     |     |     N O N - F I S C A L       |
|                               |     |                               |
|KONTROLA BAZY DANYCH           |     |DATA BASE CONTROL              |
|NUMER     PTU:SERVER   PTU:DRUKARKA |  |NUMBER    VAT:SERVER   VAT:PRINTER |
|- - - - - - - - - - - - - - - -|     |- - - - - - - - - - - - - - - -|
|rzodkiewka                     |     |radish                         |
|000001      B        7,00  |         |000001      B        7,00  |
|kapusta                        |     |cabbage                        |
|000002      B        7,00  |         |000002      B        7,00  |
|marchewka                      |     |carrot                         |
|000003      C        ZW*   |         |000003      C        EX*   |
|zapalniczka                    |     |lighter                        |
|000004      A       22,00  |         |000004      A       22,00  |
|- - - - - - - - - - - - - - - -|     |- - - - - - - - - - - - - - - -|
|ILOŚĆ TOWARÓW:            4|         |NUMBER OF ITEMS:          4|
|ILOŚĆ RÓŻNIC:             1|         |NUMBER OF DIFFERENCES:    1|
|                               |     |                               |
|     N I E F I S K A L N Y     |     |     N O N - F I S C A L       |
|  #001      KIEROWNIK   13:42 |      |  #001      MANAGER    13:42 |
|          12345678             |     |          12345678             |
```

[dbchkline] Data base control line

Command Id:
dbchkline

Input parameters:

Name	Description	Required	Type	Remarks
vt	Check goods rate	YES	Num.	Number scope: 0-6
na	Name if checked goods	YES	alphanum.	Up to 40 characters

Device response:
standard

Remarks:
The sequence is active in connection with sequences dbchkstart, dbchkend.
Availability in read only mode: NO

Example:
[STX]dbchkline[TAB]vt0[TAB]naMLEKO[TAB]#CRC16[ETX]

[dbchkend] Data base control end

Command Id:
dbchkend

Input parameters:
none

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]dbchkend[TAB]#CRC16[ETX]

[dbchkplu] Goods sales possibility check

Command Id:
dbchkplu

Input parameters:

Name	Description	Required	Type	Remarks
vt	VAT rates of goods	YES	Num.	Rate number provided (0 - 6)
na	Name of goods	YES	Alphanum.	Up to 40 characters

Device response:

Name	Description	Required	Type	Remarks
vv	Rate in which the good was sent recently.	-	Num.	101,00 – goods not sold yet
bl	Flag defining the possibility of selling goods at a rate higher than „vv" field value	-	Bool	N – goods not blocked Y – goods blocked

Remarks:
Availability in read only mode: NO

Response example:
[STX]dbchkplu[TAB]vv101,00[TAB]blN[TAB]#CRC16[ETX]

Example:
[STX]dbchkplu[TAB]vt1[TAB]naMLEKO[TAB]#CRC16[ETX]

Transaction

[trinit] Transaction initialization

Command Id:
trinit

Input parameters:

Name	Description	Required	Type	Remarks
bm	1 – block mode 0 – on-line mode	NO	Bool	Default false. Block mode enables enables sending at least 100 selling items with discount and item description in an initiated transaction.

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]trinit[TAB]bm1[TAB]#CRC16[ETX]

Printout:
example receipt:

```
|        P O S N E T        |      |        P O S N E T        |
| D R U K A R K A  F I S K A L N A  |      | F I S C A L   P R I N T E R   |
|        123-456-78-90      |      |        123-456-78-90      |
|2007-02-19              24|      |2007-02-19              24|
|        PARAGON FISKALNY    |      |        FISCAL RECEIPT     |
|Towar1          1 x0,04 0,04A|      |Item 1          1 x0,04 0,04A|
|Towar2          1 x0,03 0,03B|      |Item 2          1 x0,03 0,03B|
|Towar3          3 x0,01 0,03C|      |Item 3          3 x0,01 0,03C|
|- - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. A       0,04|      |VAT RATE A                0,04|
|PTU A 22,00 %             0,01|      |VAT A 22,00 %             0,01|
|SPRZEDAŻ OPODATK. B       0,03|      |VAT RATE B                0,03|
|PTU B 7,00 %              0,00|      |VAT B 7,00 %              0,00|
|SPRZEDAŻ OPODATK. C       0,03|      |VAT RATE C                0,03|
|PTU C 3,00 %              0,00|      |VAT C 3,00 %              0,00|
|SUMA PTU                  0,01|      |VAT TOTAL                 0,01|
|SUMA                      0,10|      |TOTAL                     0,10|
|00004 #001   KIEROWNIK    14:13|      |00004 #001   MANAGER      14:13|
|        {PL} ABC 12345678         |      |        {PL} ABC 12345678         |
```

[trfvinit] Vat invoice intialization

Command Id:

trfvinit

Input parameters:

Name	Description	Required	Type	Remarks
nb	Invoice number	YES	alphanum.	Up to 15 characters
ni	NIP number	YES	alphanum.	Up to 20 characters
na	Purchaser name	YES	alphanum.	The field may be composed of 3 lines separated by LF character. The lengths of line should be adjusted to printing mechanism. Redundant characters are cut.
pd	Payment deadline	YES	alphanum.	Up to 16 characters
pt	Payment form	YES	alphanum.	Up to 20 characters
sc	Client's name and surname	NO	alphanum.	Fields printed when parameter ps=1
ss	Seller's name and surname	NO	alphanum.	Up to 26 characters
cc	Number of additional copies	NO	Num.	Scope 0 – 9. Default cc=0
ps	Printing fields of persons entitled to make and receive an invoice (true) / without printing (false)	NO	BOOL	Default false

Device response:

standard

Remarks:

Availability in read only mode: NO

Example:

[STX]a VAT trfvinit[TAB]nb12[TAB]ni222-333-44-55[TAB]pd22/09/2006[TAB]ptGotówka[TAB]scJan Nowak[TAB]ssWojciech Kowalski[TAB]cc1[TAB]#CRC16[ETX]

Printout:

```
|          FAKTURA VAT          |     |          VAT INVOICE          |
|nr: 1212                      3|     |nr: 1212                      3|
|          ORYGINAŁ             |     |          ORIGINAL             |
|Data sprzedaży:      2007-02-19|     |Date of sales:       2007-02-19|
|Data wystawienia:    2007-02-19|     |Issue date:          2007-02-19|
|                               |     |                               |
|Sprzedawca:                    |     |Seller:                        |
|        P O S N E T            |     |        P O S N E T            |
|  D R U K A R K A  F I S K A L N A |  |  F I S C A L  P R I N T E R   |
|123-456-78-90                  |     |123-456-78-90                  |
|                               |     |                               |
|Nabywca:                       |     |Purchaser:                     |
|SKLEP                          |     |SKLEP                          |
|888-999-00-11                  |     |888-999-00-11                  |
|                               |     |                               |
|Forma płatności:  Przelew      |     |Payment form:  Transfer        |
|Termin płatności: 11-11-2007   |     |Payment deadline: 11-11-2007   |
|                               |     |                               |
|LP 1 - - - - - - - - - - - - - |     |LP 1 - - - - - - - - - - - - - |
|dzem                           |     |jam                            |
|        1 x 99,99        99,99 |     |        1 x 99,99        99,99 |
|PTU B 7,00 %              6,54 |     |VAT B 7,00 %             6,54 |
|Wartość netto:          93,45 |     |Net value:              93,45 |
|LP 2 - - - - - - - - - - - - - |     |LP 2 - - - - - - - - - - - - - |
|Chusteczka                     |     |Tissue                         |
|      1000 x 5,55      5550,00 |     |      1000 x 5,55      5550,00 |
|PTU A 22,00 %          1000,82 |     |VAT A 22,00 %          1000,82 |
|Wartość netto:         4549,18 |     |Net value:             4549,18 |
|- - - - - - - - - - - - - - -  |     |- - - - - - - - - - - - - - -  |
|Stawka PTU 22,00 % (A)         |     |VAT rate 22,00 % (A)           |
|Wartość netto:         4549,18 |     |Net value:             4549,18 |
|Wartość PTU:           1000,82 |     |VAT value:             1000,82 |
|Wartość brutto:        5550,00 |     |Gross value:           5550,00 |
|- - - - - - - - - - - - - - -  |     |- - - - - - - - - - - - - - -  |
|Stawka PTU 7,00 % (B)          |     |VAT rate 7,00 % (B)            |
|Wartość netto:          93,45 |     |Net value:              93,45 |
|Wartość PTU:             6,54 |     |VAT value:               6,54 |
|Wartość brutto:         99,99 |     |Gross value:            99,99 |
|- - - - - - - - - - - - - - -  |     |- - - - - - - - - - - - - - -  |
|RAZEM                          |     |TOTAL                          |
|Wartość netto:         4642,63 |     |Net value:             4642,63 |
|Wartość brutto:        5649,99 |     |Gross value:           5649,99 |
|Wartość PTU:           1007,36 |     |VAT value:             1007,36 |
|                               |     |                               |
|Do zapłaty:  5649,99           |     |To be paid:  5649,99           |
|Słownie:                       |     |In words:                      |
|pięć tys. sześćset czterdzieści dziewięć| |five ths. six hundert and fourty nine|
|zł 99/100                      |     |PLN 99/100                     |
|                               |     |                               |
|0000001 #321   KAJTEK    13:36|     |0000001 #321   KAJTEK    13:36|
|9765BD4EFECE7A82D24FC617809C9831EFC93239| |9765BD4EFECE7A82D24FC617809C9831EFC93239|
|      {PL} ABC 12345678        |     |      {PL} ABC 12345678        |
```

[trline] Transaction line

Command Id:

trline

Input parameters:

Name	Description	Required	Type	Remarks
na	Name of goods	YES	alphanum.	Up to 40 characters
vt	VAT rate	YES	Num.	Rate number provided (0 - 6)
pr	Price	YES	Num.	Up to 9999999999
st	Item cancellation flag false-no cancellation, true – item cancellation	NO	BOOL	Default false
wa	Total amount	NO	Num.	Up to 9999999999
il	Number of goods	NO	Num.	Default 1,000
op	Goods description	NO	alphanum.	Default empty. Up to 35 characters
jm	Measure unit	NO	alphanum.	Up to 4 characters
rd	Discount(true)/narzut(false)	NO	BOOL	Default discount
rn	Discount/surcharge name	NO	alphanum.	Default empty. Up to 25 characters
rp	Per cent discount/surcharge value	NO	Num.	Up to 99.99%
rw	Amount discount/surcharge value	NO	Num.	Discount can nt exceed the value of goods. The total of surcharge and price of goods can not exceed the scope of *wa* parameter

Device command:

standard

Remarks:

1. In order to grant percent discount/surcharge, rp field (per cent) should be sent.
2. In order to grant amount discount/surcharge, rw field (value) should be sent.
3. if both fields are sent, it is per cent discount, and value field in discount/surcharge value for verification.
4. If none of fields (rp and rw) is sent, there is no discount/surcharge. Sending discount name field

results in printing a line including discount: xxxxx or including surcharge: xxxxx depending on rd parameter (i.e. discount).
5. Occurring rd field only (i.e. discount) is ignored.
6. Availability in read only mode: NO

Example:
[STX]trline[TAB]naMleko[TAB]vt2[TAB]pr245[TAB]#CRC16[ETX]

Discounts and surcharges

[trdiscntvat] Discount in VAT rate

Command Id:
trdiscntvat

Input parameters:

Name	Description	Required	Type	Remarks
vt	Rate Id to which surcharge us granted	YES	Num.	As in *trline* command
rd	Discount(true)/surcharge(false)	NO	BOOL	Default discount
rp	Discount/surcharge per cent value	NO	Num.	*As in trline* command
rw	Discount/surcharge amount value	NO	Num.	*As in trline* command
na	Discount/surcharge name	NO	alphanum.	Up to 25 characters. Default empty
rt	Amount with granted discount.	NO	Num.	

Device response:
standard

Remarks:
1. Next to vt field, the command must include rp or rw field.
2. If both rp and rw fields occur, discount has a per cent value and rw value is used only for verification
3. If rt is empty, amount to which discount is granted is the value of totalizer in a particular rate.
4. Availability in read only mode: NO

Example:
[STX]trdiscntvat[TAB]vt1[TAB]rd1[TAB]rp1[TAB]#CRC16[ETX]

Printout:
printout example with discount in VAT rate

```
|         P O S N E T         |      |            P O S N E T            |
|  D R U K A R K A   F I S K A L N A  |      |    F I S C A L   P R I N T E R    |
|         999-888-77-66       |      |            999-888-77-66          |
|2007-12-04              75|      |2007-12-04                    75|
|       PARAGON FISKALNY       |      |           FISCAL RECEIPT          |
|Patelnia         1 x80,00 80,00A|      |Frying pan          1 x80,00 80,00A|
```

```
|Rabat WIOSENNY 10,00 %        -8,00A|      |SPRING Discount 10,00 %        -8,00A|
|- - - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. A            72,00|      |VAT RATE A                     72,00|
|PTU A 22,00 %                  12,98|      |VAT A 22,00 %                  12,98|
|SUMA PTU                       12,98|      |VAT TOTAL                      12,98|
|SUMA                           72,00|      |TOTAL                          72,00|
|00002 #001     KIEROWNIK       12:49|      |00002 #001     MANAGER         12:49|
|        {PL} ABC 12345678           |      |        {PL} ABC 12345678           |
|                                    |      |                                    |
|GOTÓWKA                        72,00|      |CASH                           72,00|

|          P O S N E T               |      |          P O S N E T               |
|   D R U K A R K A  F I S K A L N A |      |   F I S C A L   P R I N T E R      |
|          999-888-77-66             |      |          999-888-77-66             |
|2007-12-04                       75 |      |2007-12-04                       75 |
|          PARAGON FISKALNY          |      |          FISCAL RECEIPT            |
|Patelnia           1 x80,00 80,00A|        |Frying pan         1 x80,00 80,00A|
|Rabat WIOSENNY 10,00 %        -8,00A|      |SPRING Discount 10,00 %        -8,00A|
|- - - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. A            72,00|      |VAT RATE A                     72,00|
|PTU A 22,00 %                  12,98|      |VAT A 22,00 %                  12,98|
|SUMA PTU                       12,98|      |VAT TOTAL                      12,98|
|SUMA                           72,00|      |TOTAL                          72,00|
|00002 #001     KIEROWNIK       12:49|      |00002 #001     MANAGER         12:49|
|        {PL} ABC 12345678           |      |        {PL} ABC 12345678           |
|                                    |      |                                    |
|GOTÓWKA                        72,00|      |CASH                           72,00|
```

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[trdiscntline] Discount/surcharge from a random line

Command Id:

trdiscntline

Input parameters:

Name	Description	Required	Type	Remarks
vt	Rate Id in which discount/surcharge is granted and to which the goods were sold	YES	Num.	As in *trline* command
ds	Name of goods with granted discount	YES	alphanum.	Up to 40 characters
rt	Sales amount with granted discount/surcharge	YES	Num.	
st	Discount/surcharge canceling (true) / without canceling (false)	NO	BOOL	Default false
rd	Discount(true)/surcharge(false)	NO	BOOL	Default discount
rp	Discount/surcharge per cent value	NO	Num.	As in *trline* command
rw	Discount/surcharge amount value	NO	Num.	As in *trline* command
na	Discount/surcharge name	NO	alphanum.	Default empty. Up to 25 characters.

Device response:

standard

Remarks:

1. Next to vt field, a command must include rp or rw field.
2. If both fields rp and rw occur, discount/surcharge has per cent vale and rw value is used for verification
3. Availability in read only mode: NO

Example:

[STX]trdiscntline[TAB]vt1[TAB]dsMleko[TAB]rp1[TAB]#CRC16[ETX]

Printout:

example receipt with sales line discount

| P O S N E T | D R U K A R K A F I S K A L N A |

```
|        P O S N E T         |      |     F I S C A L   P R I N T E R      |
|                            |      |                                     |
|       999-888-77-66        |      |          999-888-77-66        |
|2007-12-04              82| |2007-12-04                       82|
|       PARAGON FISKALNY     |      |          FISCAL RECEIPT       |
|Dlugopis        1 x10,00 10,00C| |Ballpoint pen      1 x10,00 10,00C|
|Notes        1 x190,99 190,99A| |Notebook        1 x190,99 190,99A|
|Zeszyt          1 x30,00 30,00B| |Booklet            1 x30,00 30,00B|
|Rabat Specjalny 10,00 %   -19,10A| |Special Discount 10,00 %    -19,10A|
|Do plu:               Notes| |To:                   Notebook|
|- - - - - - - - - - - - - - - - | |- - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. A      171,89| |VAT RATE A               171,89|
|PTU A 22,00 %             31,00| |VAT A 22,00 %             31,00|
|SPRZEDAŻ OPODATK. B       30,00| |VAT RATE B                30,00|
|PTU B 7,00 %               1,96| |VAT B 7,00 %               1,96|
|SPRZEDAŻ OPODATK. C       10,00| |VAT RATE C                10,00|
|PTU C 3,00 %               0,29| |VAT C 3,00 %               0,29|
|SUMA PTU                  33,25| |VAT TOTAL                 33,25|
|SUMA                     211,89| |TOTAL                    211,89|
|00003 #001     KIEROWNIK   13:05| |00003 #001     MANAGER     13:05|
|        {PL} ABC 12345678       | |        {PL} ABC 12345678       |
|                                | |                                |
|GOTÓWKA                  211,89| |CASH                     211,89|
```

[trdiscntpromo] Promotion

Command Id:

trdiscntpromo

Input parameters:

Name	Description	Required	Type	Remarks
vt	Rate Id in which discount/surcharge was granted and goods were sold	YES	Num.	As in *trline* command
rw	Promotion value	YES	Num.	As in *trline* command
st	Canceling discount/surcharge (true) /without canceling (false)	NO	BOOL	Default false
na	Promotion name	NO	alphanum.	Up to 25 characters

Device response:

standard

Remarks:

Availability in read only mode: NO

Example:

[STX]trdiscntpromo[TAB]vt1[TAB]rw100[TAB]naŚwiąteczna[TAB]#CRC16[ETX]

Printout:

example of printout with promotion:

```
|       P O S N E T         |      |          P O S N E T         |
|  D R U K A R K A   F I S K A L N A  |  |  F I S C A L   P R I N T E R   |
|        999-888-77-66      |      |          999-888-77-66       |
|2007-12-04              93|      |2007-12-04                 93|
|      PARAGON FISKALNY     |      |        FISCAL RECEIPT        |
|Dżem            1 x10,00 10,00C|  |Jam              1 x10,00 10,00C|
|Makaron         1 x20,00 20,00A|  |Noodles          1 x20,00 20,00A|
|Marchewka       1 x30,00 30,00B|  |Carrots          1 x30,00 30,00B|
|Promocja stały klient   -10,00A|  |Constant Client Promotion  -10,00A|
|- - - - - - - - - - - - - - - |  |- - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. A     10,00|    |VAT RATE A               10,00|
|PTU A 22,00 %            1,80|    |VAT A 22,00 %             1,80|
|SPRZEDAŻ OPODATK. B     30,00|    |VAT RATE B               30,00|
|PTU B 7,00 %             1,96|    |VAT B 7,00 %              1,96|
|SPRZEDAŻ OPODATK. C     10,00|    |VAT RATE C               10,00|
|PTU C 3,00 %             0,29|    |VAT C 3,00 %              0,29|
|SUMA PTU                 4,05|    |VAT TOTAL                 4,05|
|SUMA                    50,00|    |TOTAL                    50,00|
|00007 #001    KIEROWNIK  13:57|   |00007 #001     MANAGER    13:57|
|       {PL} ABC 12345678      |   |       {PL} ABC 12345678      |
|                              |   |                              |
|GOTÓWKA                 50,00|    |CASH                     50,00|
```

[trdiscntsubtot] Discount/surcharge from subtotal

Command Id:

trdiscntsubtot

Input parameters:

Name	Desription	Required	Type	Remarks
na	Discount/surcharge name	NO	alphanum.	Default empty. Up to 25 characters.
rd	Discount (true)/ surcharge (false)	NO	BOOL	Default discount
rp	Per cent discount/surcharge value	NO	Num.	As in *trline* command
rw	Amount discount/surcharge value	NO	Num.	As in *trline* command

Device response:

standard

Remarks:

1. If both fields rp and rw occur, discount has a per cent vale and rw value is used for verification. Lack of two fields results in a mistake.
2. This discount can not be canceled, reverse operation can be performed (discount ↔ surcharge).
3. Availability in read only mode: NO

Example:

[STX]trdiscntsubtot[TAB]rp15[TAB]#CRC16[ETX]

Printout:

```
|       P O S N E T         |     |          P O S N E T           |
|  D R U K A R K A  F I S K A L N A  |     |     F I S C A L   P R I N T E R      |
|        999-888-77-66       |     |          999-888-77-66         |
|2007-12-04              98|     |2007-12-04              98|
|       PARAGON FISKALNY      |     |          FISCAL RECEIPT        |
|Długopis          1 x10,00 10,00C|     |Ballpoint pen       1 x10,00 10,00C|
|Gazeta            1 x20,00 20,00A|     |Newspaper           1 x20,00 20,00A|
|Woda mineralna    1 x30,00 30,00B|     |Mineral water       1 x30,00 30,00B|
|Podsuma:               60,00 |     |Suptotal:                60,00 |
|Narzut nocny           10,00 |     |Night surchrge           10,00 |
|Podsuma:               70,00 |     |Subtotal:                70,00 |
|- - - - - - - - - - - - - - - - - |     |- - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. A        23,33|     |VAT RATE A                 23,33|
|PTU A 22,00 %               4,21|     |VAT A 22,00 %               4,21|
|SPRZEDAŻ OPODATK. B        35,00|     |VAT RATE B                 35,00|
|PTU B 7,00 %                2,29|     |VAT B 7,00 %                2,29|
|SPRZEDAŻ OPODATK. C        11,67|     |VAT RATE C                 11,67|
|PTU C 3,00 %                0,34|     |VAT C 3,00 %                0,34|
```

```
|VAT TOTAL                       6,84|    |00008 #001      MANAGER          14:24|
|TOTAL                          70,00|
|          {PL} ABC 12345678         |    |          {PL} ABC 12345678         |
|                                    |    |                                    |
|GOTÓWKA                        70,00|    |CASH                           70,00|
```

```
|VAT TOTAL                       6,84|    |00008 #001      MANAGER          14:24|
|TOTAL                          70,00|
|          {PL} ABC 12345678         |    |          {PL} ABC 12345678         |
|                                    |    |                                    |
|GOTÓWKA                        70,00|    |CASH                           70,00|
```

[trdiscntbill] Discount/surcharge from receipt

Command Id:

trdiscntbill

Input parameters:

Name	Description	Required	Type	Remarks
na	Discount/surcharge name	NO	alphanum.	Up to 25 characters. Default empty
rd	Discount(true)/surcharge(false)	NO	BOOL	Default discount
rp	Discount/surcharge value of per cent type	NO	Num.	As in *trline* command
rw	Discount/surcharge value of amount cent type	NO	Num.	As in *trline* command

Device response:

standard

Remarks:

1. Discounts/surcharges from receipt can be granted repeatedly.
2. Availability in read only mode: NO

Example:

[STX]trdiscntbill[TAB]naZniżka[TAB]rp15[TAB]#CRC16[ETX]

Printout:

```
|   D R U K A R K A  F I S K A L N A   |      |      F I S C A L  P R I N T E R      |
|          999-888-77-66               |      |          999-888-77-66              |
|2007-12-04                        117|      |2007-12-04                        117|
|          PARAGON FISKALNY            |      |          FISCAL RECEIPT             |
|Gazeta              1 x10,00 10,00C|      |Newspaper           1 x10,00 10,00C|
|Notes               1 x20,00 20,00A|      |Notebook            1 x20,00 20,00A|
|Zeszyt              1 x30,00 30,00B|      |Booklet             1 x30,00 30,00B|
|- - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - |
|Podsuma:                  60,00 |      |Subtotal:                 60,00 |
| Rabat wakacyjny 10,00 %          |      | Holiday discount 10,00 %         |
|- - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. A          18,00|      |VAT RATE A                   18,00|
|PTU A 22,00 %                 3,25|      |VAT A 22,00 %                 3,25|
|SPRZEDAŻ OPODATK. B          27,00|      |VAT RATE B                   27,00|
|PTU B 7,00 %                  1,77|      |VAT B 7,00 %                  1,77|
|SPRZEDAŻ OPODATK. C           9,00|      |VAT RATE C                    9,00|
|PTU C 3,00 %                  0,26|      |VAT C 3,00 %                  0,26|
|SUMA PTU                      5,28|      |VAT TOTAL                     5,28|
|SUMA                         54,00|      |TOTAL                        54,00|
|00013 #001     KIEROWNIK     14:43|      |00013 #001     MANAGER       14:43|
|        {PL} ABC 12345678         |      |        {PL} ABC 12345678         |
|GOTÓWKA                      54,00|      |CASH                         54,00|
```

Container transaction

[trpackinit] Container transaction initialization

Command Id:
trpackinit

Input parameters:
none

Device response:
standard

Remarks:
Container transaction initialization enables only container turnover. There is no possibility of goods sales.
Availability in read only mode: NO

Example:
[STX]trpackinit[TAB]#CRC16[ETX]

Printout:
Example printout of container transaction:

```
|       P O S N E T        |      |          P O S N E T           |
| D R U K A R K A  F I S K A L N A  |      | F I S C A L   P R I N T E R  |
|        999-888-77-66     |      |         999-888-77-66          |
|2007-12-04            119|      |2007-12-04                  119|
|      N I E F I S K A L N Y      |      |      N I E F I S K A L N Y     |
|  Rozliczenie opakowań zwrotnych  |      |   Returnable container settlement  |
|Opakowanie zwr.5123     1x1,00 1,00|      |Return. container 5123    1x1,00 1,00|
|      N I E F I S K A L N Y      |      |       N O N - F I S C A L      |
|  #001      KIEROWNIK      14:48|      |  #001      MANAGER         14:48|
|         12345678         |      |         12345678               |
|                          |      |                                |
|- - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - |
|DO ZAPŁATY PLN          1,00|      |TO BE PAID PLN            1,00|
|GOTÓWKA                 1,00|      |CASH                      1,00|
```

[trpack] Container line

Command Id:

trpack

Input parameters:

Name	Description	Required	Type	Remarks
na	Container name	NO	Num.	Up to 12 digits
ne	Container gave out (false)/container returned (true)	NO	BOOL	Default gave out.
st	Item cancellation flag (item cancellation – true)	NO	BOOL	Default false
pr	Container price	YES	Num.	Price in grosz (PLN 1/100).
il	Number of containers	NO	Num.	Default 1,000
wa	Total = price x quantity	NO	Num.	Up to 9999999999

Device response:

standard

Remarks:

In order to enable container turnover, transaction should be open: trinit (goods and containers turnover) or trpackinit (only container turnover).

Availability in read only mode: NO

Example:

[STX]trpack[TAB]na123[TAB]pr150[TAB]wa15[TAB]#CRC16[ETX]

[trpackprnend] Printing container line in transaction

Command Id:
trpackprnend

Input parameters:

Name	Description	Required	Type	Remarks
na	Container name	NO	Num.	Up to 12 digits. For na=0 name is not printed – default
ne	Container gave out (false)/container returned (true)	NO	BOOL	Default false. The parameter should have the same value as analogical parameter in *trpack* command
pr	Price of container	YES	Num.	Price sent in grosz (PLN 1/100)
il	Number of containers	NO	Num.	Default 1,000
wa	Total = price x quantity	NO	Num.	Up to 9999999999

Device response:
standard

Remarks:
1. In order to include each number of a container sent in a transaction, after *trend* command *trpackprnend* command should be sent in a number corresponding to a number of sold containers with different names.
2. Finishing a printout is performed after sending *trftrend* command
3. Availability in read only mode: NO

Example:
[STX]trpackprnend[TAB]na234[TAB]pr230[TAB]#CRC16[ETX]

Printout:

```
|                               |     |                                  |
|        P O S N E T            |     |          P O S N E T            |
|  D R U K A R K A  F I S K A L N A  | |     F I S C A L  P R I N T E R   |
|-------------------------------|     |----------------------------------|
|                               |     |                                  |
|2007-02-20                 72|      |2007-02-20                    72|
|      N I E F I S K A L N Y    |     |          N O N - F I S C A L     |
|Chusteczka      1000 x5,55 5550,00A| |Tissue          1000 x5,55 5550,00A|
|- - - - - - - - - - - - - - - -|     |- - - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. A      5550,00|    |VAT RATE A                 5550,00|
|PTU A 22,00 %            1000,82|    |VAT A 22,00 %              1000,82|
|SUMA PTU                 1000,82|    |VAT TOTAL                  1000,82|
|SUMA      5550,00               |    |TOTAL       5550,00               |
|      N I E F I S K A L N Y    |     |         N O N- F I S C A L       |
|00008 #876   Mieszko     15:44|     |00008 #876   Mieszko       15:44|
```

```
|                        |        |            Returnable container settlement   |
|            |           |        |            Accepting containers              |
|Opakowanie zwr.5123      1x0,05 -0,05|  |Return. container 5123      1x0,05 -0,05|
|          Wydania opakowań          |  |            Iss. Containers             |
|Opakowanie zwr.3215      1x0,07 0,07|   |Return. container 3215      1x0,07 0,07|
|          Przyjęcia opakowań        |   |            Acc. containers             |
|Opakowanie zwr.7215      1x0,07 -0,07|  |Return. container 7215      1x0,07 -0,07|
|Opakowanie zwr.111       1x0,30 -0,30|  |Return. container 111       1x0,30 -0,30|
|- - - - - - - - - - - - - - - - - |    |- - - - - - - - - - - - - - - - - - |
|DO ZAPŁATY PLN             5549,65|     |TO BE PAID PLN                5549,65|
|SUMA        5550,00          |          |                                      |
|        N O N - F I S C A L   |
|00008 #876   Mieszko           15:44|
```

Transaction

[trpayment] Payment form in transaction

Command Id:
trpayment

Input parameters:

Nazme	Description	Required	Type	Remarks
ty	Payment form type	YES	Num.	0 – cash, 2 – cars, 3 – check, 4 – gift voucher, 5 – credit, 6 – other, 7 – voucher, 8 – client's account
wa	Payment value	YES	Num.	Payment value or change value – depending on *re* parameter.
na	Payment form	NO	alphanum.	Up to 25 characters. Default empty.
re	Change flag	NO	BOOL	0 – payment form 1 – change payment

Device response:
standard

Remarks:
1. Currency can not be a payment form type
2. Payment form sum covering the value to be paid must be sent.
3. Availability in read only mode: NO

Example:
[STX]trinit[TAB]bm0[TAB]#CRC16[ETX]
[STX]trline[TAB]naJabłka[TAB]vt1[TAB]pr200[TAB]wa200[TAB]#CRC16[ETX]
[STX]trpayment[TAB]ty2[TAB]wa500[TAB]re0[TAB]#CRC16[ETX] – *payment form*
[STX]trpayment[TAB]ty0[TAB]wa300[TAB]re1[TAB]#CRC16[ETX] – *change*
[STX]trend[TAB]to200[TAB]re300[TAB]fp500[TAB]#CRC16[ETX]

Printout:

```
|            P O S N E T          |      |          P O S N E T          |
| D R U K A R K A   F I S K A L N A |    | F I S C A L   P R I N T E R     |
|---------------------------------|
|                                 |
|  _____    |
| |                           |   |
```

```
|2007-02-20              69|
|      N I E F I S K A L N Y      |
|Jabłka           1kg x2,00 2,00B|
|- - - - - - - - - - - - - - - - |
|SPRZEDAŻ OPODATK. B        2,00|
|PTU A 7,00 %               0,13|
|SUMA PTU                   0,13|
|SUMA                       2,00|
|      N I E F I S K A L N Y      |
|00006 #876   Mieszko      14:49|
|                                |
|Karta                      5,00|
|RESZTA PLN                 3,00|
```

```
|2007-02-20              69|
|      N O N - F I S C A L      |
|Apples           1kg x2,00 2,00B|
|- - - - - - - - - - - - - - - - |
|VATE RATE. B               2,00|
|VAT A 7,00 %               0,13|
|VAT TOTAL                  0,13|
|TOTAL                      2,00|
|      N O N - F I S C A L      |
|00006 #876   Mieszko      14:49|
|                                |
|Card                       5,00|
|CHANGE PLN                 3,00|
|                                |
```

[trpaymentcurr] Currency in transaction

Command Id:

trpaymentcurr

Input parameters:

Name	Description	Required	Type	Remarks
wc	Payment value in foreign currency	YES	Num.	
wa	Payment value in PLN	NO	Num.	Currency converted to PLN
ra	Currency exchange rate	YES	Num.	Four last digits constitute fractional part (eg: 12345 means 1,2345) Maximum value: 99999999999
na	Currency name	YES	alphanum.	Up to 25 characters. Default empty
sb	Currency symbol	YES	alphanum.	Up to 4 characters
re	Change flag	NO	BOOL	Default empty. Analogically to *re* parameter in *trpayment* command

Device response:

standard

Remarks:

Availability in read only mode: NO

Example:

[STX]trpaymentcurr[TAB]wc10[TAB]sbEUR[TAB]ra40000[TAB]#CRC16[ETX]

Printout:

```
|        P O S N E T        |      |PTU A 22,00 %                  19,11|
|   D R U K A R K A   F I S K A L N A   |   |SUMA PTU                   19,11|
|                           |      |        P O S N E T        |
|2007-02-20              60|      |    F I S C A L   P R I N T E R    |
|      N I E F I S K A L N Y      |   |                           |
|Towar1        1kg x100,00 100,00A|   |2007-02-20              60|
|- - - - - - - - - - - - - - - - |   |      N O N - F I S C A L      |
|Podsuma:              100,00 |      |Goods1        1kg x100,00 100,00A|
| Narzut do paragonu 6,00 %      |   |- - - - - - - - - - - - - - - - |
|- - - - - - - - - - - - - - - - |   |Subtotal:             100,00 |
|SPRZEDAŻ OPODATK. A      106,00|      | Receipt surcharge  6,00 %      |
```

```
|- - - - - - - - - - - - - - - - - - |     |VAT A 22,00 %                  19,11|
|VAT RATE. A                  106,00|     |VAT TOTAL                      19,11|

|SUMA        106,00                  |     |TOTAL        106,00                 |
|        N I E F I S K A L N Y       |     |        N O N - F I S C A L        |
|00001 #876   Mieszko          14:36|     |00001 #876   Mieszko          14:36|
|                                    |     |                                    |
|WALUTA                     Waluta5|     |CURRENCY                   Currency5|
|W5: 53,00 Kurs: 2,0000    PLN 106,00|     |W5: 53,00 Ex. rate: 2,0000  PLN 106,00|
|                                    |     |                                    |
```

[trpaymentcanc] Cancellation of payment forms in transaction

Command Id:
trpaymentcanc

Input parameters:
none

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]trpaymentcanc[TAB]#CRC16[ETX]

[showsubtotal] Show subtotal

Command Id:
showsubtotal

Input parameters:
none

Device response:
standard

Remarks:
Subtotal is shown on client display and subtotal is printed on a receipt

Example:
[STX]showsubtotal[TAB]#CRC16[ETX]

Printout:
Example printout after using showsubtotal command

```
|          P O S N E T          |    |          P O S N E T          |
|   D R U K A R K A   F I S K A L N A   |    |      F I S C A L   P R I N T E R      |
|         999-888-77-66         |    |         999-888-77-66         |
|2007-12-04                  120|    |2007-12-04                  120|
|         PARAGON FISKALNY      |    |         FISCAL RECEIPT        |
|Chusteczka          1 x0,01 0,01A|    |Tissue              1 x0,01 0,01A|
|Podsuma:               0,01|    |Subtotal:               0,01|
```

[trsubtotcanc] Cancellation of data inserted in subtotal

Command Id:
trsubtotcanc

Input parameters:
none

Device response:
standard

Remarks:
Discount from receipt and all payment forms canceled.
Availability in read only mode: NO

Example:
[STX]trsubtotcanc[TAB]#CRC16[ETX]

[trsubtotcanc] Cancellation of data inserted in subtotal

[trend] Transaction

Command Id:

trend

Input parameters:

Name	Description	Required	Type	Remarks
to	Fiscal value of the transaction	NO	Num.	Up to 9999999999
op	Value of sent positive containers (gave out)	NO	Num.	Up to 9999999999
om	Value of sent negative container (returned)	NO	Num.	Up to 9999999999
fp	Value of sent payment forms	NO	Num.	Up to 9999999999
re	Value of sent changes	NO	Num.	Up to 9999999999
fe	Automatic footer end flag	NO	BOOL	True - without sending containers, additional lines (default) False – with sending

Device response:

standard

Remarks:

1. Fiscal value has to be equal with receipt fiscal value.
2. Payment forms and container value has to be equal with already sent values.
3. Sent values of payment form has to be equal to bigger than the amount to be paid.
4. Passed change has to meet the requirement: PAYMENT_FORMS – CHANGE = TO_BE_PAID
5. If sent payment forms exceed TO BE PAID amount and change was not passed, the device calculates the change itself.
6. Availability in read only mode: NO

Example:

[STX]trend[TAB]to123[TAB]fp123[TAB]#CRC16[ETX]

[prncancel] Cancellation of transaction or printout

Command Id:
prncancel, trcancel

Input parameters:
none

Device response:
standard

Example:
[STX]prncancel[TAB]#CRC16[ETX]

Remarks:
trcancel command is synonymous with prncancel order.
Availability in read only mode: YES

Printput:
Example of a cancelled receipt

```
|         P O S N E T        |     |         P O S N E T        |
|  D R U K A R K A  F I S K A L N A  |  |    F I S C A L  P R I N T E R    |
|         999-888-77-66      |     |         999-888-77-66      |
|2007-12-04              126|      |2007-12-04              126|
|       PARAGON FISKALNY     |     |        FISCAL RECEIPT      |
|Długopis         1 x10,00 10,00C|  |Ballpoint pen     1 x10,00 10,00C|
|Notes          1 x190,99 190,99A| |Notebook        1 x190,99 190,99A|
|Zeszyt           1 x30,00 30,00B|  |Booklet          1 x30,00 30,00B|
|      A N U L O W A N Y      |     |      C A N C E L L E D      |
|   #001     KIEROWNIK    15:29|   |   #001     MANAGER     15:29|
|          12345678          |     |          12345678          |
```

Information lines

[trftrln] Additional lines after transaction

Command Id:
trftrln

Input parameters:

Name	Description	Required	Type	Remarks
id	Line Id	YES	Num.	
na	Line content	NO	alphanum.	Up to 40 characters

Id:

0 – Transaction number		numerical
1 - Points		numerical
2 -Total points		numerical
3 – Registration number		numerical
4 - Surname		letter
5 - Card		letter
6 – Card number		numerical
7 – Valid until		numerical
8 - Cashier		numerical
9 - Cashier name		letter
10 – Advance payment		numerical
11 - Currency		alphanumerical
12 – Exchange rate		numerical
13 – Order number		numerical
14 – Employee number		numerical
15 – Employee name		letter
16 – Account before tr.		numerical
17 - Granted		numerical
18 - Used		numerical
19 – Account after trans.		numerical
20 – Permanent client		alphanumerical
21 - Voucher		numerical

22 – Voucher value	numerical
23 – Voucher payment	numerical
24 - notice pre-defines in RAM	without parameter (string[40] all digits changed into spaces, in case of using a line, it is printed after daily report)
25 – line without key word (15 spaces)	numerical
26 – Number of sold goods	numerical
27 – Employee number	numerical
28 – Client number	numerical
29 – Granted total discount	numerical
30 – Number	alphanumerical
31 – Code	alphanumerical
32 – Name	alphanumerical
33 – Description	alphanumerical
34 – Number	alphanumerical

Device response:
standard

Remarks:
1. Receipt footer automatic finish flag (*fe*) in finishing transaction should be switched to *false*
2. Additional lines can not be sent while issuing a VAT invoice.
3. Numerical parameter can contain digit, maximum 3 letters and special symbols. Letter parameter can contain letters, maximum 3 digits and special symbols.
4. After finishing a receipt up to 2 lines can be printed.
5. Printout finishing is performed after sending *trftrend* command
6. Availability in read only mode: NO

Example:
example transaction:
[STX]trinit[TAB]bm0[TAB]#CRC16[ETX]
[STX]trline[TAB]naSok pomidorowy[TAB]vt1[TAB]pr350[TAB]il1[TAB]#CRC16[ETX]
[STX]trend[TAB]to350[TAB]op0[TAB]om0[TAB]fe0[TAB]#CRC16[ETX]
[STX]trftrln[TAB]id2na987[TAB]#CRC16[ETX]
[STX]trftrln[TAB]id15[TAB]naJan Kowalski[TAB]#CRC16[ETX]
[STX]trftrend[TAB]#CRC16[ETX]

Printout:
Example printount with information lines

```
|          P O S N E T          |      |          P O S N E T          |
|   D R U K A R K A  F I S K A L N A   |      |        PARAGON FISKALNY        |
|          999-888-77-66          |      |Sok pomidorowy          1 x3,50 3,50B|
|2007-12-05                   133|      |- - - - - - - - - - - - - - - - - - - |
```

```
|SPRZEDAŻ OPODATK. B            3,50|     |          FISCAL RECEIPT           |
|PTU B 7,00 %                   0,23|     |Tomato juice          1 x3,50 3,50B|
|SUMA PTU                       0,23|     |- - - - - - - - - - - - - - - - - -|
|SUMA                           3,50|     |B RATE VAT SALES               3,50|
|00018 #001    KIEROWNIK       09:42|     |VAT B 7,00 %                   0,23|
|         {PL} ABC 12345678         |     |VAT SUM                        0,23|
|                                   |     |SUM                            3,50|
|GOTÓWKA                        3,50|     |00018 #001     MANAGER        09:42|
|                                   |     |         {PL} ABC 12345678         |
|Suma punktów:                   987|     |                                   |
|Nazw. pracownika:    Jan Kowalski|     |CASH                           3,50|
|                                   |     |                                   |
|    F I S C A L   P R I N T E R    |     |Points total:                   987|
|         999-888-77-66             |     |Employee's name:     Jan Kowalski|
|2007-12-05                     133|
```

```
|SPRZEDAŻ OPODATK. B            3,50|     |          FISCAL RECEIPT           |
|PTU B 7,00 %                   0,23|     |Tomato juice          1 x3,50 3,50B|
|SUMA PTU                       0,23|
|GOTÓWKA                        3,50|     |00018 #001     MANAGER        09:42|
|                                         |         {PL} ABC 12345678         |
```

[trftrend] Footer end after transaction

Command Id:
trftrend

Input parameters:
none

Device response:
standard

Remarks:
Command enables finishing a transaction in which containers or additional lines are printed
(trpackprnend, trftrln)
Availability in read only mode: NO

Example:
Example using trftrend command as in trftrln command

Printout:
Printout example using trftrend command as in trftrln command

[trftrend] Footer end after transaction

[stocash] Return of goods

Commans Id:

stocash

Input parameters:

Name	Description	Required	Type	Remarks
kw	Amount of purchase	YES	Num.	Up to 9999999999

Device response:

standard

Remark:

Availability in read only mode: NO

Example:

[STX]stocash[TAB]kw9876[TAB]#CRC16[ETX]

Printout:

```
|                                    |          |                                    |
|           P O S N E T              |          |           P O S N E T              |
|   D R U K A R K A   F I S K A L N A  |        |   F I S C A L   P R I N T E R      |
|------------------------------------|          |------------------------------------|
|                                    |          |                                    |
|2007-02-20                   50|              |2007-02-20                   50|
|        N I E F I S K A L N Y       |          |          N O N - F I S C A L       |
|Zwrot towaru              98,76|              |Goods return              98,76|
|        N I E F I S K A L N Y       |          |          N O N - F I S C A L       |
|    #321   KAJTEK          11:16|              |    #321   KAJTEK          11:16|
```

[packret] Container return

Command Id:
packret

Input parameters:

Name	Description	Required	Type	Remarks
kw	Returnable container value	YES	Num.	Up to 9999999999

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]packret[TAB]kw345[TAB]#CRC16[ETX]

Printout:

```
|         P O S N E T        |      |         P O S N E T        |
| D R U K A R K A  F I S K A L N A  |   | F I S C A L  P R I N T E R  |
|-----------------------------------|   |-----------------------------------|
|                                   |   |                                   |
|2007-02-20                     48| |   |2007-02-20                     48|
|       N I E F I S K A L N Y       |   |       N O N - F I S C A L         |
|    Rozliczenie opakowań zwrotnych |   |   Returnable containers settlement |
|        Przyjęcia opakowań         |   |        Accepting containers        |
|Opakowanie zwr.1        1x7,65 -7,65|  |Return. cont.1          1x7,65 -7,65|
|       N I E F I S K A L N Y       |   |       N O N - F I S C A L         |
|   #321   KAJTEK            11:10|  |   #321   KAJTEK            11:10|
|                                   |   |                                   |
```

[login] Cashier login

Command Id:
login

Input parameters:

Name	Description	Required	Type	Remarks
na	Cashier name	YES	alphanum.	Length up to 32 characters. First 17 characters in printer footer.
nk	Cash register number	NO	alphanum.	Length up to 8 characters.
dr	Printout flag:	NO	BOOL	Default false – without printing

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]login[TAB]naKAJTEK[TAB]dr1[TAB#CRC16[ETX]

Printout:

```
|        P O S N E T         |        |         P O S N E T          |
|  D R U K A R K A   F I S K A L N A  |        | F I S C A L   P R I N T E R  |
|-------------------------------------|        |-------------------------------------|
|        NIP 000-000-00-02   |        |        NIP 000-000-00-02     |
|2004-05-07              31|        |2004-05-07              31|
|      N I E F I S K A L N Y  |        |      N O N - F I S C A L     |
|- - - - - - - - - - - - - - - - - |   |- - - - - - - - - - - - - - - - - |
|     Rozpoczęcie pracy kasjera    |   |       Cashier shift start        |
|- - - - - - - - - - - - - - - - - |   |- - - - - - - - - - - - - - - - - |
|Kasjer:              KAJTEK|        |Cashier:              KAJTEK|
|Numer kasy              321|        |Cash register number     321|
|- - - - - - - - - - - - - - - - - |   |- - - - - - - - - - - - - - - - - |
|     N I E F I S K A L N Y   |        |      N O N - F I S C A L     |
|   #321   KAJTEK     12:36 |        |   #321   KAJTEK     12:36 |
|       12345678           |        |       12345678           |
```

[logout] Cashier logout

Command Id:

logout

Input parameters:

Name	Description	Required	Type	Remarks
na	Cashier name	NO	alphanum.	Length up to 32 characters. First 17 characters in printer footer.
nk	Cash register number	NO	alphanum.	Length up to 8 characters.

Device response:

standard

Remarks:

Availability in read onlz mode: NO

Example:

[STX]logout[TAB]naKAJTEK[TAB]#CRC16[ETX]

Printout:

```
|          P O S N E T           |        |           P O S N E T            |
|  D R U K A R K A   F I S K A L N A  |   |     F I S C A L   P R I N T E R      |
|-----------------------------------|     |-------------------------------------|
|        NIP 000-000-00-02          |     |         NIP 000-000-00-02           |
|2004-05-07                    32|        |2004-05-07                       32|
|      N I E F I S K A L N Y         |     |       N O N - F I S C A L           |
|- - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - - |
|      Zakończenie pracy kasjera     |     |         Cashier shift end          |
|- - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - - |
|Kasjer:                    KAJTEK|        |Cashier:                   KAJTEK|
|Numer kasy                    321|        |Cash register number          321|
|- - - - - - - - - - - - - - - - - |      |- - - - - - - - - - - - - - - - - - |
|      N I E F I S K A L N Y         |     |       N O N - F I S C A L           |
|    #321   KAJTEK        12:36 |          |    #321   KAJTEK        12:36 |
|          12345678             |          |          12345678             |
```

[cash] Payment/ withdrawal to/from cash register

Command Id:
cash

Input parameters:

Name	Description	Required	Type	Remarks
kw	Payment / withdrawal amount	YES	Num.	To 9999999999
wp	Payment / withdrawal	YES	BOOL	true-payment, false-withdrawal

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]cash[TAB]kw50[TAB]wpT[TAB]#CRC16[ETX]

Printout:

```
|                              |    |                                |
|        P O S N E T           |    |          P O S N E T           |
|  D R U K A R K A  F I S K A L N A  |  F I S C A L   P R I N T E R  |
|------------------------------|    |--------------------------------|
|                              |    |                                |
|2007-02-20              52|       |2007-02-20                  52|
|      N I E F I S K A L N Y   |    |       N O N - F I S C A L      |
|Wypłata z kasy          5,55|      |Withdrawal from cash register  5,55|
|      N I E F I S K A L N Y   |    |       N O N - F I S C A L      |
|   #321   KAJTEK       11:19|      |   #321   KAJTEK          11:19|
|                              |    |                                |
```

Verification of control numbers

[trfvverinit] Receipt/VAT invoice verification initialization

Command Id:
trfvverinit

Input parameters:
none

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]trfvverinit[TAB]#CRC16[ETX]

[trfvverline] Adding receipt/VAT invoice verification line

Command Id:
trfvverline

Input parameters:

Name	Description	Required	Type	Remarks
na	Name of goods	YES	alphanum.	Up to 40 characters
vt	VAT rate Id	YES	Num.	Rate number (0 - 6)

Device response:
standard

Remarks:
Availability in read only mode: NO

Example
[STX]trfvverline[TAB]naSerek[TAB]vt2[TAB]#CRC16[ETX]

[trfvverend] Recepit/VAT invoice verification finalization

Command Id:
trfvverend

Input parameters:

Name	Description	Required	Type	Remarks
si	Electronic invoice signature	YES	alphanum.	40 characters
to	Total amount on an invoice	YES	Num.	Up to 9999999999
va	VAT value total	YES	Num.	Up to 99999999999
da	Date of issuing an invoice	YES	Date and time	
nu	Device id	YES	alphanum.	12 characters
nb	Invoice number	YES	Num.	Up to 15 characters
fv	Is it an invoice?	NO	BOOL	1 - invoice, 0 - receipt. Default invoice.

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:
[STX]trfvverend[TAB]si7791B1F3404714CF7B8464D4AC84827277942A13[TAB]to234[TAB]va 23[TAB]da2007-02-06;8:23[TAB]nuABC 12345678[TAB]nb1212[TAB]#CRC16[ETX]

Printout:
Invoice verification printout example:

```
|        P O S N E T          |      |          P O S N E T           |
|  D R U K A R K A  F I S K A L N A  |      |    F I S C A L   P R I N T E R   |
|                             |      |                                |
|2007-02-20                 42|      |2007-02-20                   42 |
|      N I E F I S K A L N Y      |      |      N O N - F I S C A L      |
|   WERYFIKACJA NUMERU KONTROLNEGO   |      |   CONTROL NUMBER VERIFICATION    |
|NUMER FV: 1212               |      |FV NUMBER: 1212                 |
|DATA WYSTAWIENIA:   2007-02-06;08:23|      |ISUE DATE:        2007-02-06;08:23|
|NUMER UNIKATOWY:      NZS 65245874|      |FISCAL MEMORY ID:     NZS 65245874|
|ŁĄCZNA KWOTA PTU:         1007,36|      |VAT TOTAL VALUE:         1007,36|
|ŁĄCZNA KWOTA BRUTTO:      5649,99|      |GROSS TOTAL VALUE:       5649,99|
|TOWARY:                      |      |GOODS:                          |
|dzem                         |      |jam                             |
|IDENTYFIKATOR STAWKI: B      |      |RATE ID: B                      |
```

```
|Chusteczka                          |          |Tissue                              |
|IDENTYFIKATOR STAWKI: A             |          |RATE ID: A                          |
|                                    |          |                                    |
|7791B1F3404714CF7B8464D4AC84827277942A13|      |7791B1F3404714CF7B8464D4AC84827277942A13|
|NUMER KONTROLNY:             ZGODNY|          |CONTROL NUMBER:             CORRECT|
|       N I E F I S K A L N Y        |          |       N O N - F I S C A L          |
|    #321   KAJTEK            10:13|          |    #321   KAJTEK            10:13|
```

```
|Chusteczka                          |          |Tissue                              |
|IDENTYFIKATOR STAWKI: A             |          |RATE ID: A                          |
|                                    |          |                                    |
|7791B1F3404714CF7B8464D4AC84827277942A13|      |7791B1F3404714CF7B8464D4AC84827277942A13|
|NUMER KONTROLNY:             ZGODNY|          |CONTROL NUMBER:             CORRECT|
|       N I E F I S K A L N Y        |          |       N O N - F I S C A L          |
|    #321   KAJTEK            10:13|          |    #321   KAJTEK            10:13|
```

[dailyrepver] Daily report verification

Command Id:
dailyrepver

Input parameters:

Name	Description	Required	Type	Remarks
si	Electronic report signature (control number)	YES	alphanum.	Up to 40 characters
nr	Report number (fiscal)	YES	Num.	
nd	Number of document (non-fiscal)	YES	Num	
pa	VAT A net sales, receipts	YES	Num	For inactive rates - 0,00.
pb	VAT B net sales, receipts	YES	Num	
pc	VAT C net sales, receipts	YES	Num	
pd	VAT D net sales, receipts	YES	Num	
pe	VAT E net sales, receipts	YES	Num	
pf	VAT F net sales, receipts	YES	Num	
pg	VAT G net sales, receipts	YES	Num	
fa	VAT A net sales, invoices	YES	Num	
fb	VAT B net sales, invoices	YES	Num	
fc	VAT C net sales, invoices	YES	Num	
fd	VAT D net sales, invoices	YES	Num	
fe	VAT E net sales, invoices	YES	Num	
ff	VAT F net sales, invoices	YES	Num	
fg	VAT G net sales, invoices	YES	Num	
wa	Gross total value	YES	Num	
nu	Device id	YES	alphanum.	Up to 12 characters
il	Number of receipts	YES	Num	
da	Date of record to fiscal memory.	YES	Date and time	Hour as in header,

Device response:
standard

Remarks:
Availability in read only mode: NO

Example:

[STX]si3180BA850458F67EC31117DCD256945476E214D3[TAB]nr1[TAB]nd15[TAB]pa328[TAB]pb364[TAB]pc0[TAB]pd0[TAB]pe476[TAB]pf0[TAB]pg0[TAB]fa0[TAB]fb0[TAB]fc0[TAB]fd0[TAB]fe0[TAB]ff0[TAB]fg0[TAB]wa1280[TAB]nuABC 12345678[TAB]il2[TAB]da2009-04-23;10:56[TAB]#CRC16[ETX]

Printout:

```
|2009-04-23                    89|     |2009-04-23                    89|
|        N I E F I S K A L N Y    |     |        N O N - F I S C A L     |
|    WERYFIKACJA NUMERU KONTROLNEGO |   |     CONTROL NUMBER VERIFICATION  |
|NR RAPORTU DOBOWEGO            1|     |DAILY REPORT NR                1|
|NIEFISKALNY NR WYDRUKU        15|     |PRINTOUT NON-FISCAL NR        15|
|SPRZEDAŻ PTU A              3,28|     |SALES VAT A                3,28|
|SPRZEDAŻ PTU B              3,64|     |SALES VAT B                3,64|
|SPRZEDAŻ PTU C              0,00|     |SALES VAT C                0,00|
|SPRZEDAŻ PTU D              0,00|     |SALES VAT D                0,00|
|SPRZEDAŻ PTU E              4,76|     |SALES VAT E                4,76|
|SPRZEDAŻ PTU F              0,00|     |SALES VAT F                0,00|
|SPRZEDAŻ PTU G              0,00|     |SALES VAT G                0,00|
|SPRZEDAŻ PTU AFV            0,00|     |SALES VAT AFV              0,00|
|SPRZEDAŻ PTU BFV            0,00|     |SALES VAT BFV              0,00|
|SPRZEDAŻ PTU CFV            0,00|     |SALES VAT CFV              0,00|
|SPRZEDAŻ PTU DFV            0,00|     |SALES VAT DFV              0,00|
|SPRZEDAŻ PTU EFV            0,00|     |SALES VAT EFV              0,00|
|SPRZEDAŻ PTU FFV            0,00|     |SALES VAT FFV              0,00|
|SPRZEDAŻ PTU GFV            0,00|     |SALES VAT GFV              0,00|
|ŁĄCZNA KWOTA BRUTTO:       12,80|     |GROSS TOTAL AMOUNT:        12,80|
|NUMER UNIKATOWY:     ABC 12345678|    |FISCAL MEMORY ID:    ABC 12345678|
|ILOŚĆ PARAGONÓW                2|     |NUMBER OF RECEPITS             2|
|DATA ZAPISU DO PAM.   2009-04-23;10:56| |MEMORY RECORD DATE   2009-04-23;10:56|
|                                |     |                                |
|3180BA850458F67EC31117DCD256945476E214D3| |3180BA850458F67EC31117DCD256945476E214D3|
|NUMER KONTROLNY:        ZGODNY|       |CONTROL NUMBER:        CORRECT|
|        N I E F I S K A L N Y    |     |        N O N - F I S C A L     |
|    #001      KIEROWNIK    13:36|     |    #001      MANAGER      13:36|
```

Device status

[scomm] General status

Command Id:
scomm

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
fs	Cash register in fiscal mode? (Y/N)	-	BOOL	
tz	Zero totalizers? (Y/N)	-	BOOL	
ts	Initialized transaction mode.	-	Num.	0 – no transaction 10h – receipt initialization 11h – receipt in block mode 21h – invoice initialization 30h – container transaction initialization 41h – VAT invoice verification
hr	Header programmed (Y/N)	-	BOOL	
nu	Fiscal memory id	-	alphanum.	12 characters

Remarks:
Availability in read only mode: YES

Example:
[STX]scomm[TAB]#CRC16[ETX]

[strns] Transactions status

Command Id:
strns

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
to	Transaction open	-	Num.	0 – closed 1 – open
ts	Transaction mode	-	Num.	0 – outside transaction 16 – receipt 17 – receipt in block mode 33 – invoice 48 – container 65 – invoice verification
va	VAT A rate totalizer state	-	Num.	
vb	VAT B rate totalizer state	-	Num.	
vc	VAT C rate totalizer state	-	Num.	
vd	VAT D rate totalizer state	-	Num.	
ve	VAT E rate totalizer state	-	Num.	
vf	VAT F rate totalizer state	-	Num.	
vg	VAT G rate totalizer state	-	Num.	
pp	Container value (positive)	-	Num.	
pm	Container value (negative)	-	Num.	
re	Change	-	Num.	
fp	Payments in payment forms	-	Num.	

Remarks:
Availability in read only mode: YES

Example:
[STX]strns[TAB]#CRC16[ETX]

[sfsk] Fiscal memory status

Command Id:
sfsk

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
fs	Cash register in fiscal mode (Y/N)	-	BOOL	
cl	RAM reset counter	-	Num.	
rd	Daily report counter	-	Num.	
vt	VAT rate change counter	-	Num.	
va	VAT A rate value in per cent	-	Num.	
vb	VAT B rate value in per cent	-	Num.	
vc	VAT C rate value in per cent	-	Num.	
vd	VAT D rate value in per cent	-	Num.	
ve	VAT E rate value in per cent	-	Num.	
vf	VAT F rate value in per cent	-	Num.	
vg	VAT G rate value in per cent	-	Num.	
rw	Date of the last daily report	-	Date	
nu	Fiscal memory id	-	alphanum.	

Remarks:
Availability in read only mode: YES

Example:
[STX]sfsk[TAB]#CRC16[ETX]

[stot] Totalizers status

Command Id:
stot

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
no	Number of the next daily report	-	Num.	
fa	Invoice totalizer in A rate	-	Num.	
fb	Invoice totalizer in B rate	-	Num.	
fc	Invoice totalizer in C rate	-	Num.	
fd	Invoice totalizer in D rate	-	Num.	
fe	Invoice totalizer in E rate	-	Num.	
ff	Invoice totalizer in F rate	-	Num.	
fg	Invoice totalizer in G rate	-	Num.	
fn	Invoice counter	-	Num.	
pa	Receipt totalizer in A rate	-	Num.	
pb	Receipt totalizer in B rate	-	Num.	
pc	Receipt totalizer in C rate	-	Num.	
pd	Receipt totalizer in D rate	-	Num.	
pe	Receipt totalizer in E rate	-	Num.	
pf	Receipt totalizer in F rate	-	Num.	
pg	Receipt totalizer in G rate	-	Num.	
pn	Recepit counter	-	Num.	
ct	Canceled receipts totalizer	-	Num.	
cn	Canceled receipt counter	-	Num.	
cc	Number of changes in goods data base	-	Num.	
va	VAT A rate value	-	Num.	
vb	VAT B rate value	-	Num.	
vc	VAT C rate value	-	Num.	
vd	VAT D rate value	-	Num.	
ve	VAT E rate value	-	Num.	

| vf | VAT F rate value | - | Num. | |
| vg | VAT G rate value | - | Num. | |

Remarks:
Availability in read only mode: YES

Example:
[STX]stot[TAB]#CRC16[ETX]

[scnt] Counter status

Command Id:
scnt

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
rd	Daily reports counter	-	Num.	
hn	Last printed header number	-	Num.	
bn	Last printed receipt number	-	Num.	
fn	Last printed VAT invoice number	-	Num.	
nu	Fiscal memory id	-	alphanum.	

Remarks:
Availability in read only mode: YES

Example:
[STX]scnt[TAB]#CRC16[ETX]

[sprn] Mechanism status

Command Id:

!sprn, sprn

Input parameters:

Device response:

Name	Description	Required	Type	Remarks
pr	Mechanism status	-	Num.	Mechanism status can have the following values: 0 – no error 1 – lever up 2 – no access to mechanism 3 – cover up 4 – no paper – copy 5 – no paper – original 6 – wrong temperature or power supply 7 – momentary power supply shortage 8 – cutter error 9 – charger error 10 – cover up when cutting

Remarks:

Availability in read only mode: YES

Example:

[STX]!sprn[TAB]#CRC16[ETX]

[sdev] General status

Command Id:
!sdev, sdev

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
ds	Device status.	-	Num.	The status can have the following values: 0 – ready 1 – in menu 2 – waiting for key 3 – waiting for user reaction (error occurred)
cp	Charger connected	-	BOOL	
qe	Command queue empty	-	BOOL	

Remarks:
Availability in read only mode: YES

Example:
[STX]!sdev[TAB]#CRC16[ETX]

[sid] Software type and version

Command Id:
sid

Input parameters:
none

Device response:

Name	Description	Required	Type	Remarks
nm	Device type	-	alphanum.	
vr	Software version	-	alphanum.	

Remarks:
Availability in read only mode: YES

Example:
[STX]sid[TAB]#CRC16[ETX]

Fiscal memory content reading

[fmrectypeget] Reading fiscal memory records by numbers

Command Id:
fmrectypeget

Input parameters:

Name	Description	Required	Type	Remarks
no	Number of record in fiscal memory	YES	Num.	First record is marked 0.

Device response:

Name	Description	Required	Type	Remarks
ty	Type of read record		Num.	0 – no record 1 – daily report 2 – rates programming 3 – ram reset 4 – sales after ram reset 5 – switching to read only mode 6 – fiscalization record 7 – evidence currency change record
no	Following number of record of a particular type in fiscal memory		Num.	Numbering for each record type is separate.

Remarks:
Availability in read only mode: YES

Response device:
[STX]fmrectypeget[TAB]ty6[TAB]#CRC16[ETX]

Example:
[STX]fmrectypeget[TAB]no0[TAB]#CRC16[ETX]

[fmrecfindbydate] Fiscal memory record reading according to time and date

Command Id:
fmrecfindbydate

Parametry wejściowe:

Name	Description	Required	Type	Remarks
da	Date and time	YES	Date and time	A record with date and time of sending or the first record after sent date will found.

Device response:

Nazme	Description	Required	Type	Remarks
no	Record number from fiscal memory counted from 0.		Num.	

Remarks:
Availability in read only mode: YES

Response example:
[STX]fmrecfindbydate[TAB]no9[TAB]#CRC16[ETX]

Example:
[STX]fmrecfindbydate[TAB]da2007-04-04,11:15[TAB]#CRC16[ETX]

[fmrecrd] Daily report record reading with requested number

Command Id:
fmrecrd

Input parameters:

Name	Description	Required	Type	Remarks
no	Daily report record number counted from 1	NO	Num.	If *no* field is not sent, the device sends the data of the last daily report

Device response:

Name	Description	Required	Type	Remarks
da	Daily report performance date		Date and time	
no	Daily report number		Num.	
fa	Invoice totalizer in A rate		Num.	
fb	Invoice totalizer in B rate		Num.	
fc	Invoice totalizer in C rate		Num.	
fd	Invoice totalizer in D rate		Num.	
fe	Invoice totalizer in E rate		Num.	
ff	Invoice totalizer in F rate		Num.	
fg	Invoice totalizer in G rate		Num.	
fn	Number of VAT invoices		Num.	
pa	Receipt totalizer in A rate		Num.	
pb	Receipt totalizer in B rate		Num.	
pc	Receipt totalizer in C rate		Num.	
pd	Receipt totalizer in D rate		Num.	
pe	Receipt totalizer in E rate		Num.	
pf	Receipt totalizer in F rate		Num.	
pg	Receipt totalizer in G rate		Num.	
pn	Number of printed receipts from the last daily report		Num.	
ct	Number of canceled receipts from the last daily report		Num.	
cn	Number of canceled receipts from the last daily report		Num.	

cc	Number of changes in goods data base from the last daily report		Num.	

Remarks:
Availability in read only mode: YES

Response example:
[STX]fmrecrd[TAB]da2007-12-02;11:17[TAB]no5[TAB]fa0[TAB]fb0[TAB]fc0[TAB]fd0[TAB]fe0[TAB]ff0[TAB]fg0[TAB]fn0[TAB]pa224000[TAB]pb168000[TAB]pc168000[TAB]pd0[TAB]pe0[TAB]pf0[TAB]pg0[TAB]pn2[TAB]ct0[TAB]cn0[TAB]cc10[TAB]#CRC16[ETX]

Example:
[STX]fmrecrd[TAB]no4[TAB]#CRC16[ETX]

[fmrecvat] Reading VAT rate programming record with requested number

Command Id:
fmrecvat

Input parameters:

Name	Description	Required	Type	Remarks
no	Rate programming record number counted from 1	NO	Num.	If *no* field is sent, the device will sent back the data of the last sales record after RAM reset

Device response:

Name	Description	Required	Type	Remarks
da	Rate change date		Date and time	Correct per cent rate value between (0 – 99.99) Seven rates are always sent back. 101,00 – inactive rate 100,00 – exempted rate
no	Rate change number		Num.	
va	VAT A rate value		Num.	
vb	VAT B rate value		Num.	
vc	VAT C rate value		Num.	
vd	VAT D rate value		Num.	
ve	VAT E rate value		Num.	
vf	VAT F rate value		Num.	
vg	VAT G rate value		Num.	

Remarks:
Availability in read only mode: YES

Response example:
[STX]fmrecvat[TAB]da2007-11-29;11:13[TAB]no1[TAB]va22,00[TAB]vb7,00[TAB]vc3,00[TAB]vd101,00[TAB]ve101,00[TAB]vf101,00[TAB]vg100,00[TAB]#CRC16[ETX]

Example:
[STX]fmrecvat[TAB]no4[TAB]#CRC16[ETX]

[fmrecclr] Reading RAM reset record with requested number

Command Id:
fmrecclr

Input parameters:

Nazme	Description	Required	Type	Remarks
no	Number of sales record after RAM reset counted from 1	NO	Num.	If *no* field is sent, the device will sent back the data of the last sales record after RAM reset

Device response:

Name	Description	Required	Type	Remarks
da	RAM reset date		Date and time	
no	Reset number		Num.	
r1	Reset reason 1		Num.	
r2	Reset reason 2		Num.	

Remarks:
Availability in read only mode: YES

Response example:
[STX]fmrecclr[TAB]da2007-12-05;14:36[TAB]no1[TAB]r11028[TAB]r20[TAB]#CRC16[ETX]

Example:
[STX]fmrecclr[TAB]no4[TAB]#CRC16[ETX]

[fmrecclrstart] Reading sales record after RAM reset with requested number

Command Id:
fmrecclrstart

Input parameters:

Name	Description	Required	Type	Remarks
no	Number of sales record after RAM reset counted from 1	NO	Num.	If *no* field is sent, the device will sent back the data of the last sales record after RAM reset

Device response:

Name	Description	Required	Type	Remarks
da	RAM reset date		Date and time	

Remarks:
Availability in read only mode: YES

Response example:
[STX]fmrecclrstart[TAB]da2007-12-05;14:40[TAB]#CRC16[ETX]

Example:
[STX]fmrecclrstart[TAB]no4[TAB]#CRC16[ETX]

[fmrecfisc] Device fiscalization record reading

Command Id:
fmrecfisc

Input parameters:

Name	Description	Required	Type	Remarks
no	Fiscalization record number counted from 1	NO	Num.	Fiscalized device has only one fiscalization record. Non-fiscalized device does not have any fiscalization record.

Device response:

Name	Description	Required	Type	Remarks
da	Fiskalisation date		Date and time	
ni	NIP number of the device		alphanum.	

Remarks:
Availability in read only mode: YES

Response example:
[STX]fmrecfisc[TAB]da2007-11-29;11:13[TAB]ni999-888-77-66[TAB]#CRC16[ETX]

Example:
[STX]fmrecfisc[TAB]no1[TAB]#CRC16[ETX]

[fmrecend] Reading 'Read only' mode switching record

Command Id:

fmrecend

Input parameters:

Name	Description	Required	Type	Remarks
no	Number of record of switching to read only mode	NO	Num.	Fiscalized device can have only one record of this type.

Device response:

Name	Description	Required	Type	Remarks
da	Date of switching to read only mode	-	Date and time	

Remarks:

Availability in read only mode: YES

Response example:

[STX]fmrecend[TAB]da2007-12-05;14:48[TAB]#CRC16[ETX]

Example:

[STX]fmrecend[TAB]no1[TAB]#CRC16[ETX]

[fmrecend] Reading 'Read only' mode switching record

[fmreccurrency] Currency change record reading

Command Id:

fmrecmodeeur

Input parameters:

Name	Descritpion	Required	Type	Remarks
no	Number of record of changing the currency to EUR	NIE	Num.	If *no* field is not sent, the device will send back data of the last record

Device response:

Name	Description	Required	Type	Remarks
da	Date of record of changing the currency to EUR	-	Date and time	
na	Currency symbol.	-	alphanum.	

Remarks:

Availability in read only mode: YES

Response example:

[STX]fmreccurrency[TAB]da2007-12-05;14:48[TAB]naPLN[TAB]#CRC16[ETX]

Example:

[STX]fmreccurrency[TAB]no1[TAB]#CRC16[ETX]

Error description

LP	MNEMONIC	DESCRIPTION
10	ERR_CANCEL	Untypical error – resignation, function interrupted
50	ERR_UNKN	Operation error of cash register.
51	ERR_ASSERT_FM	Operation error of cash register
52	ERR_ASSERT_DB	Operation error of cash register
53	ERR_ASSERT_SALE	Operation error of cash register
54	ERR_ASSERT_UI	Operation error of cash register
55	ERR_ASSERT_CFG	Operation error of cash register
56	ERR_ASSERT_CM	Operation error of cash register
323	ERR_OPER_BLOCKED	Function blocked in configuration
360	ERR_SERVICE_SWITCH_FOUND	Service switch found
361	ERR_SERVICE_SWITCH_NOT_FOUND	Switch not found
362	ERR_SERVICE_KEY_DATA	Key data verification error
363	ERR_SERVICE_KEY_TIMEOUT	Key response time out
382	ERR_RD_ZERO	Zero report performance try
383	ERR_RD_NOT_PRINTED	Lack of daily report.
384	ERR_FM_NO_REC	Lack of record in memory.
400	ERR_WRONG_VALUE	Incorrect value
404	ERR_WRONG_CONTROL_CODE	Incorrect control error inserted
460	ERR_CLOCK_RTC_FSK	Clock error in fiscal mode
461	ERR_CLOCK_RTC_NFSK	Clock error in non-fiscal mode
480	ERR_AUTH_AUTHORIZED	Printer authorized, for indefinite period
481	ERR_AUTH_NOT_STARTED	Authorization not initialized yet
482	ERR_AUTH_WAS_ADDED	Code already inserted
483	ERR_AUTH_DAY_CNT	Incorrect values insert try
484	ERR_AUTH_BLOCKED	Cash register activity time out, sales blocked
485	ERR_AUTH_BAD_CODE	Incorrect authorization code
486	ERR_AUTH_TOO_MANY_WRONG_CODES	Authorization blocked. Insert code from the keyboard.
487	ERR_AUTH_ALL_CODES_USED	Maximum codes number used
500	ERR_STAT_MIN_OVF	Minimum statistics overflow
501	ERR_STAT_MAX_OVF	Maxiumum statisctics oveflow

LP	MNEMONIC	DESCRIPTION
502	ERR_CASH_IN_MAX_OVF	Pcash register state overflow
503	ERR_CASH_OUT_BELOW_0	Cash register state value negative (zero cash state accepted)
700	ERR_INVALID_IP_ADDR	Incorrect IP address
701	ERR_INVALID_TONE_NUMBER	Tone number error
702	ERR_ILLEGAL_DRAWER_IMPULSE_LEN	Drawer impulse length error
703	ERR_ILLEGAL_VAT_RATE	VAT rate error
704	ERR_INVALID_LOGOUT_TIME	Logout time error
705	ERR_INVALID_SLEEP_TIME	Sleep time error
706	ERR_INVALID_TURNOFF_TIME	Turn off time error
713	ERR_CONFIG_SET	Incorrect configuration parameter
714	ERR_ILLEGAL_DSP_CONTRAST	Incorrect display brightness value
715	ERR_ILLEGAL_DSP_LUMIN	Incorrect backlight value
716	ERR_ILLEGAL_DSP_OFF_DELAY	Incorrect value of backlight turn off time
717	ERR_LINE_TOO_LONG	Too long header or footer line
718	ERR_ILLEGAL_COMM_CFG	Erroneous communication configuration
719	ERR_ILLEGAL_PROTOCOL_CFG	Erroneous configuration of communication protocol
720	ERR_ILLEGAL_PORT	Incorrect port id
721	ERR_ILLEGAL_INFO_TXT_NUM	Erroneous adverb text number
722	ERR_ILLEGAL_TIME_DIFF	Time beyond required address
723	ERR_ILLEGAL_TIME	Given date/time incorrect
724	ERR_ILLEGAL_HOUR_DIFF	Other hour difference 0<=>23
726	ERR_ILLEGAL_DSP_LINE_CONTENT	Incorrect text content in display line
727	ERR_ILLEGAL_DSP_SCROLL_VALUE	Incorrect content of display scroll
728	ERR_ILLEGAL_PORT_CFG	Incorrect port configuration
729	ERR_INVALID_MONITOR_CFG	Incorrect configuration of transaction monitor
738	ERR_ETH_CONFIG	Incorrect Ethernet configuration
739	ERR_ILLEGAL_DSP_ID	Incorrect display mode
740	ERR_ILLEGAL_DSP_ID_FOR_OFF_DELAY	For such display backlight time turn off can not be set
820	ERR_TEST	Negative test result
821	ERR_TEST_NO_CONF	Lack of tested option in configuration
857	ERR_DF_DB_NO_MEM	Lack of memory for printed basis initialization
1000	ERR_FATAL_FM	Fiscal module fatal error.
1001	ERR_FM_NCONN	Disconnected fiscal memory

LP	MNEMONIC	DESCRIPTION
1002	ERR_FM_WRITE	Record error
1003	ERR_FM_UNKN	Error not included in bios specification
1004	ERR_FM_CHKSUM_CNT	Incorrect control sums
1005	ERR_FM_CTRL_BLK_0	Error in first control block
1006	ERR_FM_CTRL_BLK_1	Error in second control block
1007	ERR_FM_BAD_REC_ID	Erroneous record id
1008	ERR_FM_DATA_ADDR_INIT	Starting address initialization error
1009	ERR_FM_DATA_ADDR_INITED	Starting address initialized
1010	ERR_FM_NU_PRESENT	Fiscal memory id already saved
1011	ERR_FM_NU_NO_PRESENT_FSK	Lack of number in fiscal mode
1012	ERR_FM_NU_WRITE	Fiscal memory id save error
1013	ERR_FM_NU_FULL	Fiscal memory id overflow
1014	ERR_FM_NU_LANG	Incorrect language in fiscal memory id
1015	ERR_FM_TIN_CNT	More than one NIP
1016	ERR_FM_READ_ONLY_NFSK	Printer in read only mode without fiscalization record
1017	ERR_FM_CLR_RAM_CNT	RAM reset number exceeded
1018	ERR_FM_REP_DAY_CNT	Daily report number exceeded
1019	ERR_FM_VERIFY_NU	Fiscal memory id verification
1020	ERR_FM_VERIFY_STAT	Statistics verification error with RD.
1021	ERR_FM_VERIFY_NVR_READ	Data reading from NVR to MF verification error
1022	ERR_FM_VERIFY_NVR_WRITE	Data record from NVR to FM verification error
1023	ERR_FM_CTRL_BLK_2	Fiscal memory is too small 1Mb instead of 2Mb
1024	ERR_FM_DATA_ADDR_NO_INITED	Uninitialized data area in fiscal memory
1025	ERR_FM_NU_FORMAT	Incorrect format of fiscal memory id
1026	ERR_FM_REC_BAD_CNT	Too many blocks in FM
1027	ERR_FM_NO_BADBLK_MARKER	Incorrect block marking error
1028	ERR_FM_REC_EMPTY	record in fiscal memory does not exist -empty area
1029	ERR_FM_REC_DATE	record in fiscal memory with the date later than the previous one
1030	ERR_FM_EC_READ_SHA1	Short daily report reading error.
1031	ERR_FM_EC_WRITE_SHA1	Short daily record error.
1032	ERR_FM_EC_READ_VERIFY_SHA1	Error of reading information about short daily report verification.
1033	ERR_FM_EC_WRITE_VERIFY_SHA1	Error of information record of short daily report verification
1034	ERR_FM_EC_READ_LABEL	Electronic journal label reading error.

LP	MNEMONIC	DESCRIPTION
1035	ERR_FM_EC_WRITE_LABEL	Electronic journal record error.
1036	ERR_FM_EC_INTEGRITY	Inconsistent electronic journal data.
1037	ERR_FM_FV_AREA_DATA_ERROR	Incorrect data in invoice bites area, lack of continuity, lost bit or similar
1038	ERR_FM_FV_AREA_NOT_EMPTY	Error in invoice area. Area is not empty.
1039	ERR_FM_FV_AREA_FULL	No space for new invoices
1040	ERR_FM_FV_RD_CNT	Invoice sum from daily reports is bigger than invoice counter.
1950	ERR_TR_TOT_OVR	Receipt totalizer scope exceeded.
1951	ERR_TR_PF_OVR	Payment form exceeding the maximum payment value.
1952	ERR_TR_PF_SUM_OVR	Payment forms sum exceeding the maximum payment value.
1953	ERR_PAYMENT_OVR	payment forms cover to be paid area.
1954	ERR_TR_CHANGE_OVR	Payment exceeding maximum payment.
1955	ERR_TR_CHANGE_SUM_OVR	Payment forms total exceeding maximum payment
1956	ERR_TR_TOTAL_OVR	Total scope exceeded.
1957	ERR_TR_FISC_OVR	Maximum receipt scope exceeded.
1958	ERR_TR_PACK_OVR	Container value scope exceeded.
1959	ERR_TR_PACK_STORNO_OVR	Container value scope exceeded in item cancellation.
1961	ERR_TR_PF_REST_TOO_BIG	To big value of change
1962	ERR_TR_PF_ZERO	Payment in payment form value 0
1980	ERR_TR_DISCNT_BASE_OVR	Discount/surcharge basis amount exceeded
1981	ERR_TR_DISCNT_AFTER_OVR	Amount after discount/surcharge value exceeded
1982	ERR_TR_DISCNT_CALC	discount/surcharge calculation error
1983	ERR_TR_DISCNT_BASE_NEGATIVE_OR_ZERO	Base value negative or equal 0
1984	ERR_TR_DISCNT_ZERO	Discount/surcharge equal zero
1985	ERR_TR_DISCNT_AFTER_NEGATIVE_OR_ZERO	Discounted value negative or equal 0
1990	ERR_TR_STORNO_NOT_ALLOWED	Item cancellation not allowed. Incorrect transaction state.
1991	ERR_TR_DISCNT_NOT_ALLOWED	Discount/surcharge not allowed. Incorrect transaction state.
2000	ERR_TR_FLD_VAT	VAT field .
2002	ERR_NO_HDR	Lack of header
2003	ERR_HDR	Programmed header
2004	ERR_NO_VAT	Lack of active VAT rates.
2005	ERR_NO_TRNS_MODE	Lack of transaction mode.
2006	ERR_TR_FLD_PRICE	Price field error (price <= 0)
2007	ERR_TR_FLD_QUANT	Field error quantity (quantity <= 0)

LP	MNEMONIC	DESCRIPTION
2008	ERR_TR_FLD_TOTAL	Total amount error
2009	ERR_TR_FLD_TOTAL_ZERO	Total amount error, equals zero
2010	ERR_TOT_OVR	Daily totalizers scope exceeded
2021	ERR_RTC_WAS_SET	Clock setting try.
2022	ERR_RTC_DIFF	Too big difference of dates.
2023	ERR_RTC_HOUR	Difference bigger than an hour in user mode in fiscal mode.
2024	ERR_RTC_BAD_FORMAT	Erroneous date format (eg. 13 month)
2025	ERR_RTC_FM_DATE	data earlier from the last record to module
2026	ERR_RTC	Clock error.
2027	ERR_VAT_CHNG_CNT	Maximum number of VAT rates exceeded
2028	ERR_VAT_SAME	Identical VAT rates defining try
2029	ERR_VAT_VAL	Incorrect VAT rates
2030	ERR_VAT_NO_ACTIVE	Inactive VAT rates defining try
2031	ERR_FLD_TIN	NIP field error.
2032	ERR_FM_ID	Fiscal memory id error.
2033	ERR_FISC_MODE	Device in fiscal mode.
2034	ERR_NO_FISC_MODE	Device in non-fiscal mode.
2035	ERR_TOT_NOT_ZERO	Non-zero totalizers.
2036	ERR_READ_ONLY	Device in read-only mode.
2037	ERR_NO_READ_ONLY	Device is not in read only mode.
2038	ERR_TRNS_MODE	Device in transaction mode.
2039	ERR_TOT_ZERO	Zero totalizers.
2040	ERR_CURR_CALC	Currency calculation error, overflow at division and multiplication.
2041	ERR_TR_END_VAL_0	Try of finishing positve receipt with 0 value
2042	ERR_REP_PER_DATE_FORMAT_FROM	Initial date format error
2043	ERR_REP_PER_DATE_FORMAT_TO	Incorrect end date format
2044	ERR_REP_PER_CURR_MONTH	Monthly report performance try in a particular month
2045	ERR_REP_PER_DATE_START_GT_CURR	Initial date later than current date
2046	ERR_REP_PER_DATE_END_GT_FISK	Final date later than fiscalization date
2047	ERR_REP_PER_NUM_ZERO	Initial of final number equal zero
2048	ERR_REP_NUMBER_RANGE	Initial number bigger than final number
2049	ERR_REP_PER_NUM_TOO_BIG	Too big report number
2050	ERR_REP_DATE_RANGE	Initial date later than final date

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2051	ERR_REP_TXT_NO_MEM	No memory in text buffer.
2052	ERR_TR_NO_MEM	No memory in transaction buffer
2054	ERR_TR_END_PAYMENT	Payment form not covering to paid or change amount.
2055	ERR_LINE	Incorrect line
2057	ERR_SIZE	Exceeded size of number of formatting characters
2058	ERR_LINE_CNT	Incorrect line number.
2060	ERR_TR_BAD_STATE	Erroneous transaction state
2062	ERR_PRN_START	A part of some document is printed
2063	ERR_PAR	Parameter error
2064	ERR_FTR_NO_HDR	Lack of printing or transaction initialization.
2067	ERR_PRN_CFG_SET	printout/printer configuration settings error
2070	ERR_WRONG_MAINTENANCE_TIME	Inspection date earlier than determine by the system
2101	ERR_DF_DB_OVR	Filling data base
2102	ERR_DF_DB_VAT_INACTIVE	Inactive rate
2103	ERR_DF_DB_VAT_INVALID	Incorrect VAT rate
2104	ERR_DF_DB_NAME	Name error
2105	ERR_DF_DB_NAME_VAT	Incorrectly assigned rate
2106	ERR_DF_DB_LOCKED	Blocked
2107	ERR_DF_DB_NAME_NOT_FOUND	Not found in printer data base
2108	ERR_DF_DB_NOT_OVR	Data base not full
2501	ERR_FORM_ID	Erroneous report id
2502	ERR_FORM_LINE_NO	Erroneous report line id
2503	ERR_FORM_HDR_NO	Erroneous report header id
2504	ERR_FORM_PAR_CNT	Too little number of report parameters
2505	ERR_FORM_NOT_STARTED	Report not started
2506	ERR_FORM_STARTED	Report started
2507	ERR_FORM_CMD	Erroneous command id
2521	ERR_DB_REP_PLU_ACTIVE	Report already started
2522	ERR_DB_REP_PLU_NOT_ACTIVE	Report not started
2523	ERR_DB_REP_PLU_VAT_ID	Incorrect VAT rate
2532	ERR_FV_COPY_CNT	Incorrect number of invoice copies
2600	ERR_DISCNT_TYPE	Erroneous discount/surcharge type
2601	ERR_TR_DISCNT_VALUE	Discount/ surcharge value outside the scope

LP	MNEMONIC	DESCRIPTION
2701	ERR_VAT_ID	Incorrect tax rate id.
2702	ERR_FTRLN_ID	Incorrect additional footer id.
2703	ERR_FTRLN_CNT	Exceeded number of additional footers.
2704	ERR_ACC_LOW	Low battery.
2705	ERR_PF_TYPE	Incorrect payment form type id.
2710	ERR_SERVICE_NOT_FOUND	The service with gave id is active
2801	ERR_DISCNT_VERIFY	Discount/surcharge value verification error
2802	ERR_LNTOT_VERIFY	Sales line value verification error
2803	ERR_PACKTOT_VERIFY	Container value verification error
2804	ERR_CURRTOT_VERIFY	Payment form value verification error
2805	ERR_ENDTOT_VERIFY	Fiscal value verification error
2806	ERR_ENDPACKPLUS_VERIFY	Positive containers value verification error
2807	ERR_ENDPACKMINUS_VERIFY	Negative containers value verification error
2808	ERR_ENDPAYMENT_VERIFY	Payment forms value verification error
2809	ERR_ENDCHANGE_VERIFY	Change value check error
2851	ERR_STORNO_QNT	Item canceling error, incorrect number
2852	ERR_STORNO_AMT	Item canceling error, incorrect value
2900	ERR_EC_NOT_ENOUGH_SPACE	Electronic journal state does not allow to print this document.
2903	ERR_EC_DATA_PENDING	Electronic journal internal buffer containing too much data.
2911	ERR_EC_EDM_FILE_NOT_FOUND	File not found.
2913	ERR_EC_TEST_FAILED	Incorrect test result.
3051	ERR_CURRENCY_ALREADY_CHANGED	Evidence currency after DR can not be changed more than twice.
3052	ERR_CURRENCY_SAME	Setting try of currency already set.
3053	ERR_CURRENCY_INVALID_NAME	Erroneous currency name.
3054	ERR_CURRENCY_SHOULD_CHANGE	Automatic currency change.
3055	ERR_CURRENCY_RATE	Erroneous exchange rate.