



PROTOCOL SPECIFICATION

POSNET

in

Thermal FV EJ 1.01

Thermal HS FV EJ 1.01

Thermal FV 3.02

Thermal HS FV 1.02

v 021

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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.
...		
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.
...		
#	'#' 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 of '%s' is : ", 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 – checksum
ETX – last character in the frame (03h)

Data types

1. **Num.** – decimal numerical value. Separator of fractional part: „,” or „.” (comma or dot).
2. **Amount** – it describes amount value (ie: item price, discount value).
For Thermal HS FV EJ 1.01 maximum value is equal to 9999999999
For Thermal FV EJ 1.01 maximum value is equal to 999999999.
In this case do not send decimal separator. The last two digits constitutes decimal value.
3. **Totalizer** – daily totalizer. Maximum value is equal to 49999999999.
In this case do not send decimal separator. The last two digits constitutes decimal value.
4. **Alphanum** – Alphanumerical value (ASCII string). Allowed characters are 32-255 (decimal codes). Printable characters are 32-127 and polish diacritic characters above 127 (according to the selected code page).
5. **Date** – date in format yyyy-mm-dd. „-” character may be replaced by: '.' and '/'
6. **Date and time** – yyyy-mm-dd, hh:mm. „,” character may be replaced by: space and ';'.
7. **BOOL** – Boolean 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 mode 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:

1. In fiscal mode the scope of clock regulation is limited to 1 hour, time can be changed once a day.
2. 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:

1. 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.	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.
da	Current date	NO	date	

Device response:

standard

Remarks:

1. VAT value 100 - tax exempted rate.
2. VAT value 101 – inactive rate.
3. There is no possibility to program all rates as inactive rates.
4. 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:	
PTU A	22,00 %
PTU B	7,00 %
PTU C	3,00 %
PTU D	12,00 %
PTU E	---
PTU F	0,00 %
G	SP.ZW.PTU
	N I E F I S K A L N Y
#001	KIEROWNIK 11:22
	12345678

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

1. 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
 - &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.
- Availability in read only mode: NO

Example:

```
[STX]hdrset[TAB]tx&cGrocery[LF]&c&bPICKLE[TAB]#CRC16[ETX]
```

Printout:

H H	H H
I I	I I
33	33
44	44
55	55
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

[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&cGrocery[LF]&c&bPICKLE[TAB]#CRC16[ETX]
```

Remarks:

1. Formatting characters:
 - &b – bold font
 - &c – text centering
 - &h – double height
 - &u – underlined font
 - &w – double width
2. In the current version &w and &b are suitable for the same text format.
3. '&' character is obtained by &&.
4. 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.
5. 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&cDZIEKUJEMY[LF]&cZAPRASZAMY[TAB] ]#CRC16[ETX]
```

Remarks:

- Formatting characters:
 - &b – bold font
 - &c – text centering
 - &h – double height
 - &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]
```

[ftrinfofet] Programming information lines in footer**Command Id:**

ftrinfofet

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
 - &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 three formatting characters can be used.
- Between tow daily reports it is possible to send and store up to 25 different lines.
- Availability in read only mode: NO

Example:

```
[STX]ftrinfofet[TAB]txDZIEKUJEMY[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:

	POSNET			POSNET	
	DRUKARKA FISKALNA			FISCAL PRINTER	

	2007-02-19	44		2007-02-19	44
	NIEFISKALNY			NON - FISCAL	
	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.

	FISKALIZACJA			FISKALIZACJA	
	TYPE: 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	
	NIEFISKALNY			NON - FISCAL	
	#321 SERWIS	13:22		#321 SERVICE	13:22

printout after confirming the intention of continuing fiskalization and date correctness:

	POSNET			POSNET	
	DRUKARKA FISKALNA			FISCAL PRINTER	

	123-456-78-90			123-456-78-90	
	2007-02-19	45		2007-02-19	45
	NIEFISKALNY			NON - FISCAL	
	FISKALIZACJA			FISKALIZACJA	

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 SERVICE 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:

1. 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:

1. 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:

1. Availability in read only mode: YES

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

[papfeed] Paper feed**Order Id:**

papfeed

Input parameters:

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

Device response:

standard

Remarks:

1. It does not works if paper saving node is activated.
2. 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:

1. 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:

1. 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 <i>ftrinfo</i> 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:

1. Availability in read only mode: NO

Example:

```
[STX]ftrcfg[TAB]ca1[TAB]ca1[TAB]ccHELMUT[TAB]cn129[TAB]sn876[TAB]bc1122334455[TA
B]lnDZIEKUJEMY[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:

1. If one of optional parameters is not sent, the value of a particular parameter in a printer is not changed.
2. 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	Description	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 „Reszta”(Change), „Do zapłaty”(To be paid)?	NO	BOOL	true=yes, false=no (default)
ls	LED display mode.	NIE	BOOL	true – subtotal false – current transaction's line value

Device response:

standard

Remarks:

1. If this command is sent during transaction, the changes will take effect during next transaction.
2. 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. Between two daily reports it is possible to sent up to 40 lines to the client's display.
5. 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:

1. Number of lines allowed to be sent to the client's display is defined with 'dpstxtline' command.
2. 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:

1. 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]trdiscontbill[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]trdiscontbill[TAB]naPromocja[TAB]rd1[TAB]rp1500[TAB]#CRC16[ETX]
```

```
[STX]trend[TAB]to1147[TAB]#CRC16[ETX]
```

[currateset] Currency exchange rate change**Command Id:**

currateset

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:

1. Maximum exchange rate: 9999,999999
2. Availability in read only mode: YES

Example:

– exchange rate setting: 1 EUR = 3,333333 PLN (providing that evidence currency is PLN).

```
[STX]currateset[TAB]onT[TAB]ra3333333[TAB]naEUR[TAB]diT[TAB]#CRC16[ETX]
```

– exchange rate setting: 1 PLN = 0,300000 EUR (providing that evidence currency is PLN).

```
[STX]currateset[TAB]onT[TAB]ra0300000[TAB]naEUR[TAB]diN[TAB]#CRC16[ETX]
```


[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:

1. Maximum exchange rate: 9999,999999
2. Availability in read only mode: YES

Example:

– set exchange rate: 1 PLN = 0,300000 EUR (providing that evidence currency is PLN).

```
[STX]currrateget[TAB]onT[TAB]ra0300000[TAB]naEUR[TAB]diN[TAB]#CRC16[ETX]
```

– currency exchange rate off.

```
[STX]currrateget[TAB]onN[TAB]ra0000000[TAB]na[TAB]diN[TAB]#CRC16[ETX]
```

[currset] Automatic currency change

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:

1. It is not allowed to send the same currency symbol as currently defined.
2. Sending earlier date than used by the fiscal printer invokes immediate currency change.
3. Currency change is allowed only if daily totalizers are equal to zero.
4. Availability in read only mode: NO

[currget] Reading evidence currency**Command Id:**

currget

Input parameters:

none

Device response:

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

Remarks:

1. 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:

1. Availability in read only mode: YES
2. This command is available only in the following models: Thermal FV EJ 1.01, Thermal HS FV EJ 1.01
3. Electronic journal buffer's levels:
 - (a) 1st level (less than 60 KB of the free memory) – printer blocks possibility to print long printouts (i.e. fiscal receipt)
 - (b) 2nd level (less than 44 KB of the free memory) – printers allows only to close current printout and them to print daily report.

[ecmedinfoget] Reading data about electronic journal card**Command Id:**

ecmedinfoget

Input parameters:

none

Device response:

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

Remarks:

1. Availability in read only mode: YES
2. Available only in Thermal FV EJ 1.01 and Thermal HS FV EJ 1.01

[ecpubkeyget] Public key reading**Command Id:**

ecpubkeyget

Input parameters:

none

Device response:

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

Remarks:

1. Availability in read only mode: YES
2. Available only in Thermal FV EJ 1.01 and Thermal HS FV EJ 1.01

[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:

1. Availability in read only mode: YES
2. Available only in Thermal FV EJ 1.01 and Thermal HS FV EJ 1.01
3. 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:

1. Availability in read only mode: YES
2. Buffer can stores up to 32 responses to a sent commands. Moreover it s limited to 1 KB of frame's data stored in the internal memory. For example: for a command [strns] which contains about 68 bytes of data, the buffer can stores up to $1024/68 = \sim 15$ responses.

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.

[protoswitch] Switch communication protocol to the Thermal version**Command Id:**

protoswitch

Input parameters:

none

Device response:

Standard

Remarks:

1. Availability in read only mode: YES

Printing reports

[cashrep] Embedded text report

Command Id:

cashrep

Input parameters:

none

Device response:

Standard

Remarks:

1. 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:

1. 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.
2. 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	
	NIP 333-456-78-90			NIP 333-456-78-90	
	2010-02-15	23		2010-02-15	23
	F I S K A L N Y			F I S C A L	
	RAPORT DOBOWY			DAILY REPORT	
	PTU A	11,00 %		VAT A	11,00 %
	PTU B	22,00 %		VAT B	22,00 %
	PTU C	33,00 %		VAT C	33,00 %
	PTU D	44,00 %		VAT D	44,00 %
	PTU E	55,00 %		VAT E	55,00 %
	PTU F	66,00 %		VAT F	66,00 %
	PTU G	77,00 %		VAT G	77,00 %
	- - - - -	- - - - -		- - - - -	- - - - -
	2010-02-15	7		2010-02-15	7
	- - - - -	- - - - -		- - - - -	- - - - -
	SPRZEDAŻ OPODATK. PTU A	36037,35		VAT RATE A	36037,35
	SPRZEDAŻ OPODATK. PTU B	32795,04		VAT RATE B	32795,04
	SPRZEDAŻ OPODATK. PTU C	30075,16		VAT RATE C	30075,16
	SPRZEDAŻ OPODATK. PTU D	0,00		VAT RATE D	0,00
	SPRZEDAŻ OPODATK. PTU E	0,00		VAT RATE E	0,00
	SPRZEDAŻ OPODATK. PTU F	0,00		VAT RATE F	0,00
	SPRZEDAŻ OPODATK. PTU G	0,00		VAT RATE G	0,00
	SPRZEDAŻ OPODATK. PTU AFV	0,00		VAT RATE AFV	0,00
	SPRZEDAŻ OPODATK. PTU BFV	0,00		VAT RATE BFV	0,00
	SPRZEDAŻ OPODATK. PTU CFV	0,00		VAT RATE CFV	0,00

SPRZEDAŻ OPODATK. PTU DFV	0,00	VAT RATE DFV	0,00
SPRZEDAŻ OPODATK. PTU EFV	0,00	VAT RATE EFV	0,00
SPRZEDAŻ OPODATK. PTU FFV	0,00	VAT RATE FFV	0,00
SPRZEDAŻ OPODATK. PTU GFV	0,00	VAT RATE GFV	0,00
KWOTA PTU A	3964,11	AMOUNT VAT A	3964,11
KWOTA PTU B	7214,91	AMOUNT VAT B	7214,91
KWOTA PTU C	9924,80	AMOUNT VAT C	9924,80
KWOTA PTU D	0,00	AMOUNT VAT D	0,00
KWOTA PTU E	0,00	AMOUNT VAT E	0,00
KWOTA PTU F	0,00	AMOUNT VAT F	0,00
KWOTA PTU G	0,00	AMOUNT VAT G	0,00
KWOTA PTU AFV	0,00	AMOUNT VAT AFV	0,00
KWOTA PTU BFV	0,00	AMOUNT VAT BFV	0,00
KWOTA PTU CFV	0,00	AMOUNT VAT CFV	0,00
KWOTA PTU DFV	0,00	AMOUNT VAT DFV	0,00
KWOTA PTU EFV	0,00	AMOUNT VAT EFV	0,00
KWOTA PTU FFV	0,00	AMOUNT VAT FFV	0,00
KWOTA PTU GFV	0,00	AMOUNT VAT GFV	0,00
ŁĄCZNA KWOTA PTU	21103,82	TOTAL VAT AMOUNT	21103,82
ŁĄCZNA NALEŻNOŚĆ	120011,37	ŁĄCZNA NALEŻNOŚĆ	120011,37
EWIDENCJA	PLN	CURRENCY	PLN
- - - - -		- - - - -	
TOTALIZERY STAWEK VAT (NARASTAJĄCO)		VAT TOTALIZERS (SUMMARY)	
KWOTA PTU A	3964,11	AMOUNT VAT A	3964,11
KWOTA PTU B	7223,91	AMOUNT VAT B	7223,91
KWOTA PTU C	9924,80	AMOUNT VAT C	9924,80
KWOTA PTU D	0,00	AMOUNT VAT D	0,00
KWOTA PTU E	0,00	AMOUNT VAT E	0,00
KWOTA PTU F	0,00	AMOUNT VAT F	0,00
KWOTA PTU G	0,00	AMOUNT VAT G	0,00
KWOTA PTU AFV	0,00	AMOUNT VAT AFV	0,00
KWOTA PTU BFV	0,00	AMOUNT VAT BFV	0,00
KWOTA PTU CFV	0,00	AMOUNT VAT CFV	0,00
KWOTA PTU DFV	0,00	AMOUNT VAT DFV	0,00
KWOTA PTU EFV	0,00	AMOUNT VAT EFV	0,00
KWOTA PTU FFV	0,00	AMOUNT VAT FFV	0,00
KWOTA PTU GFV	0,00	AMOUNT VAT GFV	0,00
ŁĄCZNA NALEŻNOŚĆ	120061,32	TOTAL DUE AMOUNT	120061,32
- - - - -		- - - - -	
ZMIANY W BAZIE TOWAROWEJ	19	CHANGES IN GOODS DATA BASE	19
- - - - -		- - - - -	
ILOŚĆ PARAGONÓW ANULOWANYCH	2	NUMBER OF VOIDD RECEIPTS	2
KWOTA PARAGONÓW ANULOWANYCH	30003,85	AMOUNT OF VOID RECEIPTS	30003,85
- - - - -		- - - - -	
ILOŚĆ PARAGONÓW	6	NUMBER OF RECEIPTS	6
- - - - -		- - - - -	
ILOŚĆ FAKTUR	0	NUMBER OF INVOICES	0
- - - - -		- - - - -	
ILOŚĆ POZYCJI	60	NUMBER OF ITEMS	60
- - - - -		- - - - -	
#001 KIEROWNIK	16:21	#001 MANAGER	16:21
A46D118BE1E7AA3D523A8AC19613FD08CC40CFE9		A46D118BE1E7AA3D523A8AC19613FD08CC40CFE9	
SHA-1 DANYCH DOBOWYCH		SHA-1 OF DAILY REPORT	
0F00F07200F96D05B52B05ECE1AC2B1595D23868		0F00F07200F96D05B52B05ECE1AC2B1595D23868	
- - - - -		- - - - -	
{PL} EFG 33333333		{PL} EFG 33333333	



[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:

1. Availability in read only mode: YES

Example:

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

Printout:

	POSNET			POSNET	
	DRUKARKA FISKALNA			FISCAL - PRINTER	
	NIP 333-456-78-90			NIP 333-456-78-90	
	2010-02-15			2010-02-15	
	FISKALNY			FISCAL	
	RAPORT OKRESOWY			PERIODICAL REPORT	
	Od 2010-02-15			From 2010-02-15	
	Do 2010-02-15			To 2010-02-15	
	Od raportu 5			From report 5	
	Do raportu 5			To report 5	
	- - - - -			- - - - -	
	PTU A 11,00 %			VAT A 11,00 %	
	PTU B 22,00 %			VAT B 22,00 %	
	PTU C 33,00 %			VAT C 33,00 %	
	PTU D 44,00 %			VAT D 44,00 %	
	PTU E 55,00 %			VAT E 55,00 %	
	PTU F 66,00 %			VAT F 66,00 %	
	PTU G 77,00 %			VAT G 77,00 %	
	- - - - -			- - - - -	
	2010-02-15 5			2010-02-15 5	
	- - - - -			- - - - -	
	SPRZEDAŻ OPODATK. PTU A 0,00			VAT RATE A 0,00	
	SPRZEDAŻ OPODATK. PTU B 8,19			VAT RATE B 8,19	
	SPRZEDAŻ OPODATK. PTU C 0,00			VAT RATE C 0,00	
	SPRZEDAŻ OPODATK. PTU D 0,00			VAT RATE D 0,00	
	SPRZEDAŻ OPODATK. PTU E 0,00			VAT RATE E 0,00	
	SPRZEDAŻ OPODATK. PTU F 0,00			VAT RATE F 0,00	
	SPRZEDAŻ OPODATK. PTU G 0,00			VAT RATE G 0,00	

SPRZEDAŻ OPODATK. PTU AFV	0,00	VAT RATE AFV	0,00
SPRZEDAŻ OPODATK. PTU BFV	0,00	VAT RATE BFV	0,00
SPRZEDAŻ OPODATK. PTU CFV	0,00	VAT RATE CFV	0,00
SPRZEDAŻ OPODATK. PTU DFV	0,00	VAT RATE DFV	0,00
SPRZEDAŻ OPODATK. PTU EFV	0,00	VAT RATE EFV	0,00
SPRZEDAŻ OPODATK. PTU FFV	0,00	VAT RATE FFV	0,00
SPRZEDAŻ OPODATK. PTU GFV	0,00	VAT RATE GFV	0,00
KWOTA PTU A	0,00	AMOUNT VAT A	0,00
KWOTA PTU B	1,80	AMOUNT VAT B	1,80
KWOTA PTU C	0,00	AMOUNT VAT C	0,00
KWOTA PTU D	0,00	AMOUNT VAT D	0,00
KWOTA PTU E	0,00	AMOUNT VAT E	0,00
KWOTA PTU F	0,00	AMOUNT VAT F	0,00
KWOTA PTU G	0,00	AMOUNT VAT G	0,00
KWOTA PTU AFV	0,00	AMOUNT VAT AFV	0,00
KWOTA PTU BFV	0,00	AMOUNT VAT BFV	0,00
KWOTA PTU CFV	0,00	AMOUNT VAT CFV	0,00
KWOTA PTU DFV	0,00	AMOUNT VAT DFV	0,00
KWOTA PTU EFV	0,00	AMOUNT VAT EFV	0,00
KWOTA PTU FFV	0,00	AMOUNT VAT FFV	0,00
KWOTA PTU GFV	0,00	AMOUNT VAT GFV	0,00
ŁĄCZNA KWOTA PTU	1,80	TOTAL AMOUNT VAT	1,80
ŁĄCZNA NALEŻNOŚĆ	9,99	TOTAL AMOUNT DUE	9,99
EWIDENCJA	PLN	CURRENCY	PLN
- - - - -		- - - - -	
TOTALIZERY STAWEK VAT (NARASTAJĄCO)		VAT TOTALIZERS (SUMMARY)	
KWOTA PTU A	0,00	AMOUNT VAT A	0,00
KWOTA PTU B	7,20	AMOUNT VAT B	7,20
KWOTA PTU C	0,00	AMOUNT VAT C	0,00
KWOTA PTU D	0,00	AMOUNT VAT D	0,00
KWOTA PTU E	0,00	AMOUNT VAT E	0,00
KWOTA PTU F	0,00	AMOUNT VAT F	0,00
KWOTA PTU G	0,00	AMOUNT VAT G	0,00
KWOTA PTU AFV	0,00	AMOUNT VAT AFV	0,00
KWOTA PTU BFV	0,00	AMOUNT VAT BFV	0,00
KWOTA PTU CFV	0,00	AMOUNT VAT CFV	0,00
KWOTA PTU DFV	0,00	AMOUNT VAT DFV	0,00
KWOTA PTU EFV	0,00	AMOUNT VAT EFV	0,00
KWOTA PTU FFV	0,00	AMOUNT VAT FFV	0,00
KWOTA PTU GFV	0,00	AMOUNT VAT GFV	0,00
ŁĄCZNA NALEŻNOŚĆ	39,96	TOTAL AMOUNT DUE	39,96
- - - - -		- - - - -	
ILOŚĆ PARAGONÓW	1	NUMBER OF RECEIPTS	1
- - - - -		- - - - -	
ILOŚĆ FAKTUR	0	NUMBER OF INVOICES	0
- - - - -		- - - - -	
ILOŚĆ POZYCJI	57	NUMBER OF ITEMS	57
- - - - -		- - - - -	
SHA-1 DANYCH DOBOWYCH		SHA-1 OF DAILY REPORT	
C37A8DC622B00CE84051FF2082DD12F1740617F3		C37A8DC622B00CE84051FF2082DD12F1740617F3	
- - - - -		- - - - -	
ŁĄCZNY RAPORT OKRESOWY		ŁĄCZNY RAPORT OKRESOWY	
Od	2010-02-15	From	2010-02-15
Do	2010-02-15	To	2010-02-15
Od raportu	5	From report	5
Do raportu	5	To report	5

- - - - -	- - - - -	- - - - -	- - - - -
Sprzed. opodatk. PTU A	0,00	VAT RATE A	0,00
Sprzed. opodatk. PTU B	8,19	VAT RATE B	8,19
Sprzed. opodatk. PTU C	0,00	VAT RATE C	0,00
Sprzed. opodatk. PTU D	0,00	VAT RATE D	0,00
Sprzed. opodatk. PTU E	0,00	VAT RATE E	0,00
Sprzed. opodatk. PTU F	0,00	VAT RATE F	0,00
Sprzed. opodatk. PTU G	0,00	VAT RATE G	0,00
Sprzed. opodatk. PTU AFV	0,00	VAT RATE AFV	0,00
Sprzed. opodatk. PTU BFV	0,00	VAT RATE BFV	0,00
Sprzed. opodatk. PTU CFV	0,00	VAT RATE CFV	0,00
Sprzed. opodatk. PTU DFV	0,00	VAT RATE DFV	0,00
Sprzed. opodatk. PTU EFV	0,00	VAT RATE EFV	0,00
Sprzed. opodatk. PTU FFV	0,00	VAT RATE FFV	0,00
Sprzed. opodatk. PTU GFV	0,00	VAT RATE GFV	0,00
Kwota PTU A	0,00	AMOUNT VAT A	0,00
Kwota PTU B	1,80	AMOUNT VAT B	1,80
Kwota PTU C	0,00	AMOUNT VAT C	0,00
Kwota PTU D	0,00	AMOUNT VAT D	0,00
Kwota PTU E	0,00	AMOUNT VAT E	0,00
Kwota PTU F	0,00	AMOUNT VAT F	0,00
Kwota PTU G	0,00	AMOUNT VAT G	0,00
Kwota PTU AFV	0,00	AMOUNT VAT AFV	0,00
Kwota PTU BFV	0,00	AMOUNT VAT BFV	0,00
Kwota PTU CFV	0,00	AMOUNT VAT CFV	0,00
Kwota PTU DFV	0,00	AMOUNT VAT DFV	0,00
Kwota PTU EFV	0,00	AMOUNT VAT EFV	0,00
Kwota PTU FFV	0,00	AMOUNT VAT FFV	0,00
Kwota PTU GFV	0,00	AMOUNT VAT GFV	0,00
ŁĄCZNA KWOTA PTU	1,80	TOTAL AMOUNT VAT	1,80
ŁĄCZNA NALEŻNOŚĆ	9,99	TOTAL AMOUNT DUE	9,99
EWIDENCJA	PLN	CURRENCY	PLN
ILOŚĆ PARAGONÓW	1	NUMBER OF RECEIPTS	1
ILOŚĆ EL. NOŚNIKÓW DANYCH	1	NUMBER OF EJ CARDS	1
ILOŚĆ USZKODZONYCH NOŚNIKÓW DANYCH	0	NUMBER OF FAULTY EJ CARDS	0
- - - - -	- - - - -	- - - - -	- - - - -
#001 KIEROWNIK	16:22	#001 MANAGER	16:22
{PL} EFG 33333333		{PL} EFG 33333333	

[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:

1. Availability in read only mode: YES

Example:

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

Printout:

The printout using periodicrepbydates is the same like using command periodicrepbynumbers.

[monthlyrep] Monthly report**Command Id:**

monthlyrep

Input parameters:

Name	Description	Required	Type	Remarks
da	Initial 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:

1. Monthly report can not be printed from a current month.
2. 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	
	NIP 333-456-78-90			NIP 333-456-78-90	
	2010-04-17			2010-04-17	
	F I S K A L N Y			F I S C A L	
	RAPORT OKRESOWY MIESIĘCZNY			MONTHLY PERIODICAL REPORT	
	Rok:2010			Year:2010	
	Miesiąc:3			Month:3	
	Od raportu			To report	
	10			10	
	Do raportu			From report	
	10			10	
	- - - - -			- - - - -	
	PTU A			VAT A	
	11,00 %			11,00 %	
	PTU B			VAT B	
	22,00 %			22,00 %	
	PTU C			VAT C	
	33,00 %			33,00 %	
	PTU D			VAT D	
	44,00 %			44,00 %	
	PTU E			VAT E	
	55,00 %			55,00 %	
	PTU F			VAT F	
	66,00 %			66,00 %	
	PTU G			VAT G	
	77,00 %			77,00 %	
	- - - - -			- - - - -	
	2010-03-16			2010-03-16	
	10			10	
	- - - - -			- - - - -	
	SPRZEDAŻ OPODATK. PTU A			VAT RATE A	
	9009,00			9009,00	
	SPRZEDAŻ OPODATK. PTU B			VAT RATE B	
	8196,71			8196,71	
	SPRZEDAŻ OPODATK. PTU C			VAT RATE C	
	7518,79			7518,79	
	SPRZEDAŻ OPODATK. PTU D			VAT RATE D	
	0,00			0,00	
	SPRZEDAŻ OPODATK. PTU E			VAT RATE E	
	0,00			0,00	
	SPRZEDAŻ OPODATK. PTU F			VAT RATE F	
	0,00			0,00	
	SPRZEDAŻ OPODATK. PTU G			VAT RATE G	
	0,00			0,00	
	SPRZEDAŻ OPODATK. PTU AFV			VAT RATE AFV	
	0,00			0,00	

SPRZEDAŻ OPODATK. PTU BFV	0,00	VAT RATE BFV	0,00
SPRZEDAŻ OPODATK. PTU CFV	0,00	VAT RATE CFV	0,00
SPRZEDAŻ OPODATK. PTU DFV	0,00	VAT RATE DFV	0,00
SPRZEDAŻ OPODATK. PTU EFV	0,00	VAT RATE EFV	0,00
SPRZEDAŻ OPODATK. PTU FFV	0,00	VAT RATE FFV	0,00
SPRZEDAŻ OPODATK. PTU GFV	0,00	VAT RATE GFV	0,00
KWOTA PTU A	990,99	AMOUNT VAT A	990,99
KWOTA PTU B	1803,28	AMOUNT VAT B	1803,28
KWOTA PTU C	2481,20	AMOUNT VAT C	2481,20
KWOTA PTU D	0,00	AMOUNT VAT D	0,00
KWOTA PTU E	0,00	AMOUNT VAT E	0,00
KWOTA PTU F	0,00	AMOUNT VAT F	0,00
KWOTA PTU G	0,00	AMOUNT VAT G	0,00
KWOTA PTU AFV	0,00	AMOUNT VAT AFV	0,00
KWOTA PTU BFV	0,00	AMOUNT VAT BFV	0,00
KWOTA PTU CFV	0,00	AMOUNT VAT CFV	0,00
KWOTA PTU DFV	0,00	AMOUNT VAT DFV	0,00
KWOTA PTU EFV	0,00	AMOUNT VAT EFV	0,00
KWOTA PTU FFV	0,00	AMOUNT VAT FFV	0,00
KWOTA PTU GFV	0,00	AMOUNT VAT GFV	0,00
ŁĄCZNA KWOTA PTU	5275,47	TOTAL AMOUNT VAT	5275,47
ŁĄCZNA NALEŻNOŚĆ	29999,97	TOTAL AMOUNT DUE	29999,97
EWIDENCJA	PLN	CURRENCY	PLN
- - - - -		- - - - -	
TOTALIZERY STAWEK VAT (NARASTAJĄCO)		VAT TOTALIZERS (SUMMARY)	
KWOTA PTU A	6937,08	AMOUNT VAT A	6937,08
KWOTA PTU B	12633,75	AMOUNT VAT B	12633,75
KWOTA PTU C	17368,40	AMOUNT VAT C	17368,40
KWOTA PTU D	0,00	AMOUNT VAT D	0,00
KWOTA PTU E	0,00	AMOUNT VAT E	0,00
KWOTA PTU F	0,00	AMOUNT VAT F	0,00
KWOTA PTU G	0,00	AMOUNT VAT G	0,00
KWOTA PTU AFV	0,00	AMOUNT VAT AFV	0,00
KWOTA PTU BFV	0,00	AMOUNT VAT BFV	0,00
KWOTA PTU CFV	0,00	AMOUNT VAT CFV	0,00
KWOTA PTU DFV	0,00	AMOUNT VAT DFV	0,00
KWOTA PTU EFV	0,00	AMOUNT VAT EFV	0,00
KWOTA PTU FFV	0,00	AMOUNT VAT FFV	0,00
KWOTA PTU GFV	0,00	AMOUNT VAT GFV	0,00
ŁĄCZNA NALEŻNOŚĆ	210061,23	TOTAL AMOUNT DUE	210061,23
- - - - -		- - - - -	
IŁOŚĆ PARAGONÓW	1	NUMBER OF RECEIPTS	1
- - - - -		- - - - -	
IŁOŚĆ FAKTUR	0	NUMBER OF INVOICES	0
- - - - -		- - - - -	
IŁOŚĆ POZYCJI	57	NUMBER OF ITEMS	57
- - - - -		- - - - -	
SHA-1 DANYCH DOBOWYCH		SHA-1 OF DAILY REPORT	
B672B7A3D4288C012779FF522FE2EC12E4A1215C		B672B7A3D4288C012779FF522FE2EC12E4A1215C	
- - - - -		- - - - -	
RAPORT MIESIĘCZNY PODSUMOWANIE		MONTHLY REPORT SUMMARY	
Rok:2010	Miesiąc:3	Year:2010	Month:3
Od raportu	10	To report	10
Do raportu	10	From report	10
- - - - -		- - - - -	
Sprzed. opodatk. PTU A	9009,00	VAT RATE A	9009,00

Sprzed. opodatk. PTU B	8196,71	VAT RATE B	8196,71
Sprzed. opodatk. PTU C	7518,79	VAT RATE C	7518,79
Sprzed. opodatk. PTU D	0,00	VAT RATE D	0,00
Sprzed. opodatk. PTU E	0,00	VAT RATE E	0,00
Sprzed. opodatk. PTU F	0,00	VAT RATE F	0,00
Sprzed. opodatk. PTU G	0,00	VAT RATE G	0,00
Sprzed. opodatk. PTU AFV	0,00	VAT RATE AFV	0,00
Sprzed. opodatk. PTU BFV	0,00	VAT RATE BFV	0,00
Sprzed. opodatk. PTU CFV	0,00	VAT RATE CFV	0,00
Sprzed. opodatk. PTU DFV	0,00	VAT RATE DFV	0,00
Sprzed. opodatk. PTU EFV	0,00	VAT RATE EFV	0,00
Sprzed. opodatk. PTU FFV	0,00	VAT RATE FFV	0,00
Sprzed. opodatk. PTU GFV	0,00	VAT RATE GFV	0,00
Kwota PTU A	990,99	AMOUNT VAT A	990,99
Kwota PTU B	1803,28	AMOUNT VAT B	1803,28
Kwota PTU C	2481,20	AMOUNT VAT C	2481,20
Kwota PTU D	0,00	AMOUNT VAT D	0,00
Kwota PTU E	0,00	AMOUNT VAT E	0,00
Kwota PTU F	0,00	AMOUNT VAT F	0,00
Kwota PTU G	0,00	AMOUNT VAT G	0,00
Kwota PTU AFV	0,00	AMOUNT VAT AFV	0,00
Kwota PTU BFV	0,00	AMOUNT VAT BFV	0,00
Kwota PTU CFV	0,00	AMOUNT VAT CFV	0,00
Kwota PTU DFV	0,00	AMOUNT VAT DFV	0,00
Kwota PTU EFV	0,00	AMOUNT VAT EFV	0,00
Kwota PTU FFV	0,00	AMOUNT VAT FFV	0,00
Kwota PTU GFV	0,00	AMOUNT VAT GFV	0,00
ŁĄCZNA KWOTA PTU	5275,47	TOTAL AMOUNT VAT	5275,47
ŁĄCZNA NALEŻNOŚĆ	29999,97	TOTAL AMOUNT DUE	29999,97
EWIDENCJA	PLN	CURRENCY	PLN
ILOŚĆ PARAGONÓW	1	NUMBER OF RECEIPTS	1
ILOŚĆ EL. NOŚNIKÓW DANYCH	1	NUMBER OF EJ CARDS	1
ILOŚĆ USZKODZONYCH NOŚNIKÓW DANYCH	0	NUMBER OF FAULTY EJ CARDS	0
- - - - -		- - - - -	
#001 KIEROWNIK 10:25		#001 MANAGER 10:25	
{PL} EFG 33333333		{PL} EFG 33333333	

[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:

1. Availability in read only mode: NO

Example:

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

Printout:

	POSNET			POSNET	
	DRUKARKA FISKALNA			FISCAL - PRINTER	
	2007-02-20		54	2007-02-20	
	NIEFISKALNY			NON - FISCAL	
	-----			-----	
	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 of cancelled items:	
				0	
	Wpłaty do kasy:		0,00	Payment to cash reg.:	
				0,00	
	Wyплаты 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	
	-----			-----	
	NIEFISKALNY			NON - FISCAL	
	#321 KAJTEK		11:29	#321 KAJTEK	
				11:29	

[cashstaterep] Cash register state report**Command Id:**

cashstaterep

Input parameters:

none

Device response:

standard

Remarks:

1. 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:

1. 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:

1. Availability in read only mode: NO

Example:

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

Printout:

form 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:

1. 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:

1. 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:

1. 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.: BBBB			PAYMENT FORM: BBBB	
	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

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
TRANSAKCJE ODŁOŻONE	0 - header	PONSTPONED TRANSACTIONS
POTWIERDZENIE DOKONANIA TRANSAKCJI	1 - header	CONFIRMATION OF TRANSACTION REALIZATION
Kasa: #####	0 numerical	Cash register: #####
Numer transakcji: #####	1 numerical	Transaction number: #####
Numer kasjera: #####	2 numerical	Cashier number: #####
NIEFISKALNY		NON-FISCAL

Remarks:

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

3 – Operator functions

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
RAPORT FUNKCJI OPERATORA	0 - header	OPERATOR FUNCTIONS REPORT
Funkcja #### #####	0 num, alphanum	Function #### #####
NIEFISKALNY		NON-FISCAL

Remarks:

- Numerical parameters may include: digits, special signs, max. 3 letters. Redundant letters are changed into spaces.
- "Funkcja" line may occur repeatedly.

4 – Cashier report

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
RAPORT KASJERA X	0 - header	X CASHIER REPORT
RAPORT KASJERA Z	1 - header	Z CASHIER REPORT
RAPORT KASY X	2 - header	X CASH REPORT
RAPORT KASY Z	3 - header	Z CASH REPORT
OFFLINE KASJERA	4 - header	CASHIER OFFLINE
ONLINE KASJERA	5 - header	CASHIER ONLINE

LICZBA RESETÓW: ###	0 numerical	RESET NUMBER: ###
NUMER KASY # #####	1 num, alphanum	CASH NUMBER # #####
SUMY ŁĄCZNE	2	TOTAL SUMS
SUMA BIEŻĄCA DODATNIA #####	3 numerical	POSITIVE CURRENT SUM #####
SUMA BIEŻĄCA UJEMNA #####	4 numerical	NEGATIVE CURRENT SUM #####
SUMA POPRZEDNIA DODATNIA #####	5 numerical	PREVIOUS POSITIVE SUM #####
SUMA POPRZEDNIA UJEMNA #####	6 numerical	PREVIOUS NEGATIVE SUM #####
-----	7	-----
SUMA ŁĄCZNA DODATNIA #####	8 numerical	TOTAL POSITIVE SUM #####
SUMA ŁĄCZNA UJEMNA #####	9 numerical	TOTAL NEGATIVE SUM #####
SUMY SPRZEDAŻY	10	SALE TOTALS
TOWARY:	11	GOODS:
##### POZYCJE DODATNIE #####	12 num, num	##### POSITIVE ITEMS #####
##### USŁUGI, INNE #####	13 num, num	##### SERVICES, OTHER #####
##### POZYCJE UJEMNE #####	14 num, num	##### PNEGATIVE ITEMS #####
##### DODATNIE KOREKTY #####	15 num, num	##### POS. CORRECTIONS #####
##### UJEMNE KOREKTY #####	16 num, num	##### NEG. CORRECTIONS #####
##### KUPON SKLEPOWY #####	17 num, num	##### SHOP COUPON #####
PODSUMA TOWARÓW #####	18 numerical	GOODS SUBTOTAL #####
PODSUMA PODATKU #####	19 numerical	TAX SUBTOTAL #####
RABAT / DOPLATA	20	DISC / SURCHARGE
RABAT HEJ HEM #####	21 numerical	HEJ HEM DISCOUNT #####
RABAT / DOPLATA #####	22 numerical	DISC / SURCHARGE #####
RABAT / DOPLATA #####	23 numerical	DISC / SURCHARGE #####
RABAT DLA PRACOWNIKA #####	24 numerical	EMPLOYEE DISCOUNT #####
PODSUMA RABATU/DOPLATY #####	25 numerical	DISC. SUBTOTAL/SUBSIDIES #####
-----	26	-----
SPRZEDAŻ NETTO ŁĄCZNIE #####	27 numerical	TOTAL NET SALES #####
SUMY ŚROD. PŁATNOŚCI	28	PAYMENT FORM TOTAL
ŚRODKI PŁATNOŚCI	29	PAYMENT FORM
ŚRODEK PŁ.##: ### #####	30 num, alphanum, alphanum, num	PAY. FORM ##: ### #####
##### KWOTA #####	31 num, num	##### AMOUNT #####
##### ZEBRANE #####	32 num, num	##### COLLECTION #####
##### W OBIEGU #####	33 num, num	##### IN CIRCULATION #####
##### START W OB. #####	34 num, num	##### START IN CIRC. #####
##### TYP PŁ. NR 2 #####	35 num, num	##### TYP PŁ. NR 2 #####
PODSUMA ŚR. PŁATNOŚCI #####	36 num, num	PAYMENT SUBTOTAL #####
KOREKTA ŚRODKÓW PŁATNOŚCI	37	PAYMENT FORM CORRECTION
##### DOD. FUNKCJI BANK. #####	38 num, num	##### ADD. BANK. FUNCT. #####
##### POMN. FUNKCJI BANK. #####	39 num, num	##### RED. BANK. FUNCT. #####
##### USTAW. ZAOKRĄGLEŃ #####	40 num, num	##### APPROX. SETTINGS #####
##### ZAPAM. CZ. PŁATN. #####	41 num, num	##### PAY. PART SAVE #####
##### PRZYW. CZ. PŁATN. #####	42 num, num	##### PAY. PART RESTORE #####
##### OPŁATA PŁATNOŚCI #####	43 num, num	##### PAYMENTS #####
PODSUMA KOREKTY PŁATN. #####	44 numerical	PAYMENT CORR. SUBTOTAL #####
-----	45	-----
ŚRODKI PŁATNICZE ŁĄCZNIE #####	46 numerical	TOTAL PAYMENT FORMS #####
INNE SUMY	47	OTHER SUMS
##### OBNIŻKI DODATNIE #####	48 num, num	##### POSITIVE DISCOUNTS #####
##### OBNIŻKI UJEMNE #####	49 num, num	##### NEGATIVE DISCOUNTS #####
##### KOREKCJE BŁĘDÓW #####	50 num, num	##### ERROR CORRECTIONS #####
##### SUMA ZWROTÓW #####	51 num, num	##### RETURNS TOTAL #####
##### ZWROTY KOSZTÓW #####	52 num, num	##### COST RETURNS #####
##### ŚRODKI UNIEWAŻN. #####	53 num, num	##### ANNULLED FUNDS #####
##### POZYCJE SPRZEDAŻY #####	54 num, num	##### SALES ITEMS #####

##### RABAT ZBIORCZY #####	55 num, num	##### COLLECTIVE DISC. #####
##### SPRZEDAŻ ANULOWANA #####	56 num, num	##### CALCELED SALES #####
##### SPRZEDAŻ ZAPAMIĘT. #####	57 num, num	##### STORED SALES #####
##### SPRZEDAŻ UNIEWAŻN. #####	58 num, num	##### ANNULLED SALES #####
##### SPRZEDAŻ PRZYWOŁ. #####	59 num, num	##### RESTORED SALES #####
##### ZAMIANA ŚR. PŁATN. #####	60 num, num	##### PAYM.FORM CHANGE #####
##### BEZ PODATKU #####	61 num, num	##### WITHOUT TAX #####
##### KWOTA ZWOLNIONA #####	62 num, num	##### EXEMPTED AMOUNT #####
##### ZWROT NADPŁAC. VAT #####	63 num, num	##### OVERPAID VAT RETURN #####
##### ZNACZKI WYEMITOW. #####	64 num, num	##### ISSUED MARKS #####
##### POZYCJE Z KŁAWIAT. #####%		
##### POZYCJE SKANOWANE #####%	65 num, num	##### ITEMS FROM KEYBAORD #####%
##### POZYCJE WAŻONE #####%	66 num, num	##### SCANNED ITEMS #####%
POZYCJE WAŻONE ŁĄCZNIE #####	67 num, num	##### WEIGHED ITEMS #####%
	68 numerical	TOTAL WEIGHED ITEMS #####
##### TRANSAKCJE DODATNIE		
##### ZWROT NADPŁACONEJ GOTÓWKI	69 num, num	##### POSITIVE TRANSACTONS
##### INNE TRANSAKCJE	70 num, num	##### OVERPAID CASH RETURN
##### OTWARCIE SZUFLADY	71 num, num	##### OTHER TRANSACTIONS
##### SUMA BIEŻĄCA	72 num, num	##### OPENING DRAWER
##### LICZBA KLIENTÓW	73 num, num	##### CURRENT SUM
	74 num, num	##### NUMBER OF CIENTS
##:## CZAS PRACY KASJERA		
##:## CZASOWE WYŁĄCZENIE KASY	75 num, num	##:## CASHIER WORK TIME
##:## CZAS WPROWADZANIA TOWARÓW	76 num, num	##:## TEMP. CASH SHUTDOWN
##:## CZAS PŁACENIA	77 num, num	##:## GOODS INSERTING TIME
##:## CZAS OTWARCIA SZUFLADY	78 num, num	##:## PAYMENT TIME
	79 num, num	##:## DRAWER OPENING TIME
NIEFISKALNY		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

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
RAPORT ŚRODKÓW PŁATNOŚCI KASJER #####	0 - header 0 numerical	PAYMENT FORM REPORT CASHIER #####
ŚRODEK PŁ.##: ### #####	1 num, letter, letter, num	PAY. FORM.##: ### #####
##### KWOTA #####	2 numerical	##### AMOUNT #####
##### ZEBRANE #####	3 numerical	##### COLLECTED #####
##### W OBIEGU #####	4 numerical	##### IN CIRCULATION #####
##### START W OB. #####	5 numerical	##### START IN CIRC. #####
PODSUMA ŚR. PŁATNOŚCI #####	6 numerical	PAYMENT FORM SUBTOTAL #####

NIEFISKALNY		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

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
SPRZEDAŻ ZAREJ. W KASIE	0 - header	SALES REGISTERED IN CASH REGISTERED
NUMER KASY # ###	0 num, alphanum	CASH NUMBER # ###
PODSUMA SPRZEDAŻY #####		SALES SUBTOTAL #####
PODSUMA RACH. SPRZEDAŻY #####	1 numerical	SALES RECEIPT SUB. #####
PODSUMA RABATU / DOPŁ. #####	2 numerical	DISC/ SURCH. SUBTOTAL #####
	3 numerical	-----
SPRZEDAŻ ŁĄCZNIE #####	4	TOTAL SALE #####
	5 numerical	
NIEFISKALNY		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

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
POKWITOWANIE	0 - header	RECEIPT
ZWROT: #####	0 numerical	RETURN: #####
ŚRODEK PŁ.: #####	1 alphanum	PAYMENT FORM: #####
KWOTA: #####	2 numerical	AMOUNT: #####
KONTO: #####	3 numerical	ACCOUNT: #####
PODPIS:	4	SIGNATURE:
NIEFISKALNY		NON-FISCAL

Remarks:

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

into spaces.

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

8 – Payment confirmation

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
POTWIERDZENIE WPLATY	0 - header	PAYMENT CONFIRMATION
DO DOKUM.SPRZED.: #####	0 numerical	TO SALES DOCUM.: #####
ŚRODEK PŁ.: #####	1 alphanum	PAYMENT FORM.: #####
KONTO: #####	2 numerical	ACCOUNT: #####
KWOTA: #####	3 numerical	AMOUNT: #####
WPLATA: #####	4 numerical	PAYMENT: #####
RESZTA: #####	5 numerical	CHANGE: #####
NIEFISKALNY		NON-FISCAL

Remarks:

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

9 – Gift voucher

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
BON UPOMINKOWY	0 -header	GIFT VOUCHER
*** ZREALIZOWANO ***	0	*** REALIZED ***
Kwota: #####	1	Amount: #####
Kasjer: #####	2	Cashier: #####
Data: ##### Godz.: #####	3	Date: ##### Hour: #####
Sklep: #####	3	Shop: #####
NIEFISKALNY		NON-FISCAL

Remarks:

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

10 – Credit note

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
NOTA KREDYTOWA	0 -header	CREDIT NOTE
*** ZREALIZOWANO ***	0	*** REALIZED ***
Kwota: #####	1	Amount: #####
Kasjer: #####	2	Cashier: #####
Data: ##### Godz.: #####	3	Date: ##### Hour: #####
Sklep: #####	3	Shop: #####
NIEFISKALNY		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.

11 – Credit note

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
NOTA KREDYTOWA	0 -header	CREDIT NOTE
Kwota: #####	0	Amount: #####
Słownie: #####	1	In words: #####
Zwrot nr: #####	2	Return No.: #####
Kasjer: #####	3	Cashier: #####
Data: ##### Godz.: #####	4	Date: ##### Hour.: #####
Sklep: #####	4	Shop: #####
NIEFISKALNY		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 two printing lines.

12 – Discount coupon

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
KUPON RABATOWY	0 -header	DISCOUNT COUPON
*** ZREALIZOWANO ***	0	*** REALIZED ***
Kwota: #####	1	Amount: #####
Kasjer: #####	2	Cashier: #####
Data: ##### Godz.: #####	3	Date: ##### Hour.: #####
Sklep: #####	3	Shop: #####
NIEFISKALNY		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

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
PŁATNOŚĆ 'ZA POBRANIEM'	0 -header	CASH ON DELIVERY
*** SPRZEDAŻ ZAREJESTROWANA ***	0	*** REGISTERED SALES ***
Nr identyfikacyjny: #####	1	Id number: #####
Kwota: #####	2	Amount: #####
Kasjer: #####	3	Cashier: #####
Data: ##### Godz.: #####	4	Date: ##### Hour: #####
Sklep: #####	4	Shop: #####
NIEFISKALNY		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

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890

NIEFISKALNY		NON-FISCAL
PRZELEW BANKOWY	0 -header	BANKING TRANSFER
*** ZREALIZOWANO ***	0	*** REALIZED ***
Nr klienta: #####	1	Client NUMBER: #####
Kwota: #####	2	Amount: #####
Saldo: #####	3	Balance: #####
Kasjer: #####	4	Cashier: #####
Data: ##### Godz.: #####	5	Date: ##### Hour: #####
Sklep: #####	5	Shop: #####
NIEFISKALNY		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

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
Potw. sprzedaży bonu upominkowego	0 -header	Gift voucher sales confirmation
Wartość Bonu: #####	0	Voucher value: #####
Nazwa: #####	1	Name: #####
Kasjer: #####	2	Cashie: #####
Data: ##### Godz.: #####	3	Date: ##### Hour: #####
Sklep: #####	3	Shop: #####
NIEFISKALNY		NON-FISCAL

Remarks:

1. In line 1 alphabetical 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 parameters numerical.
5. Line 3 results in two printing lines.

16 – Employee discount

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
RABAT DLA PRACOWNIKA	0 - header	EMPLOYEE DISCOUNT
Rabat dla pracownika: #####	0 numerical	Employee discount: #####

Numer pracownika: ##### KWOTA: ##### PODPIS: NIEFISKALNY	1 numerical 2 numerical 3	Employee number: ##### AMOUNT:##### SIGNATURE: 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 letters. Redundant digits are changed into spaces.

17 – Payment form exchange

1234567890123456789012345678901234567890 NIEFISKALNY WYMIANA ŚRODKÓW PŁATNOŚCI Z: ##### NA: ##### NIEFISKALNY	0 - header 0 alphanum 1 alphanum	1234567890123456789012345678901234567890 NON-FISCAL PAYMENT FORM EXCHANGE FROM: ##### TO: ##### NON-FISCAL
--	--	---

18 – Cash operations

1234567890123456789012345678901234567890 NIEFISKALNY OPERACJE KASOWE OPERACJA ###: ##### NIEFISKALNY	0 - header 0 num, alphanum	1234567890123456789012345678901234567890 NON-FISCAL CASH OPERATION OPERATION ###: ##### NON-FISCAL
--	-----------------------------------	--

Remarks:

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

19 – Cash errors

1234567890123456789012345678901234567890 NIEFISKALNY BŁĘDY KASY BŁĄD KRYTYCZNY Serwis : ##### Urządzenie : #####	0 - header 0 1 alphanum 2 alphanum	1234567890123456789012345678901234567890 NON-FISCAL CASH ERRORS CRITICAL ERROR Service : ##### Device : #####
---	---	--

Urządzenie dod. : #####	3 alphanum	Add. Device : #####
Funkcja : #####	4 alphanum	Funtion : #####
Podfunkcja : #####	5 alphanum	Subfunction: #####
Rejestr # : #####	6 num, alphanum	Register # : #####
Trans # : #####	7 num, alphanum	Trans # : #####
Kod błędu : #####	8 alphanum	Error code : #####
NIEFISKALNY		NON-FISCAL

Remarks:

1. None of parameters is controlled by printer.

20 – Price list

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
CENNIK	0 - header	PRICE LIST
ZMIANY CEN	1 - header	PROCE CHANGE
STATYSTYKA SPRZEDAŻY	2 - header	SALES STATISTICS
POTWIERDZENIE DOKONANIA TRANSAKCJI	3 - header	TRANSACTION CONFIRMATION
SKLEP #####	0 alphanum	SHOP #####
DATA #####	1 num, num	DATE #####
Kod art: ##### Cena: #####,##	2 num, num, num	Item code:#####Price:#####,##
Kod art: ##### Data: #####	3 num, num, num	Item code:##### Date:#####
Cena1: #####,## Cena2: #####,##	4num,num,num,num	Price1: #####,## Price2: #####,##
Ilość: #####	5 numerical	Quantity: #####
NIEFISKALNY		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

1234567890123456789012345678901234567890		1234567890123456789012345678901234567890
NIEFISKALNY		NON-FISCAL
WYDANIE BONU UPOMINKOWEGO	0 - header	GIVING OUT GIFT VOUCHER
BON UPOMINKOWY: #####	0 numerical	BON UPOMINKOWY: #####
NUMER BONU: #####	1 alphanum	NUMER BONU: #####
SUMA: #####	2 numerical	TOTAL: #####
ŚRODEK PŁ.: #####	3 alphanum	PAYMENT FORM: #####
KWOTA: #####	4 numerical	AMOUNT: #####
KONTO: #####	5 numerical	ACCOUNT: #####
RESZTA: #####		CHANGE: #####
NIEFISKALNY		NON-FISCAL

Remarks:

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

NIEFISKALNY		NON-FISCAL
Potwierdzenie zapłaty kartą	0 - header	Payment card transaction confirmation
Potwierdzenie zapłaty rachunku	1 - header	Bill payment confirmation
Pokwitowanie	2 - header	Receipt
Pokwitowanie transakcji uznania	3 - header	Crediting transaction receipt
Potwierdzenie unieważnienia	4 - header	Cancellation confirmation
Potwierdzenie odmowy autoryzacji	5 - header	Authorisation reject confirmation
Potwierdzenie pre-autoryzacji	6 - header	Pre-authorization confirmation
Potwierdzenie odmowy	7 - header	Declination confirmation
Transaction confirmation	8 - header	Transaction confirmation
Cancellation confirmation	9 - header	Cancellation confirmation
Pre-authorization confirmation	10 - header	Pre-authorization confirmation
Declination confirmation	11 - header	Declination confirmation
Kasa: ### Kasjer: #####	0 alphanum	Cash reg.: ### Cashier: #####
Nr dowodu sprzedaży: #####	1 alphanum	Sales document number#####
Nr transakcji: #####	2 alphanum	Transaction NO. #####
TID: ##### UID: #####	3 alphanum	TID: ##### UID: #####
TID: ##### MID: #####	4 alphanum	TID: ##### MID: #####
Zapłata rachunku nr: #####	5 alphanum	Bill nr payment: #####
Dla: #####	6 alphanum	For: #####
Nr klienta: #####	7 alphanum	Client No.: #####
Karta: #####	8 alphanum	Card: #####
##### Ważna do: ##/##	9 alphanum	##### Ważna do: ##/##
Sprzedaż: PLN #####	10 alphanum	Sales: PLN #####
Uznanie: PLN #####	11 alphanum	Crediting: PLN #####
Gotówka: PLN #####	12 alphanum	Cash: PLN #####
Słownie: #####	13 alphanum	In words: #####
#####	14 alphanum	#####
Prowizja: PLN #####	15 alphanum	Commission: PLN #####
Razem do zapłaty: PLN #####	16 alphanum	total to be paid: PLN #####
Kod autoryzacji: #####	17 alphanum	Authorisation code: #####
Liczba punktów za transakcję: #####	18 alphanum	Transaction points number: #####
Liczba punktów po transakcji: #####	19 alphanum	Points number after transaction: #####
Kwota na karcie: #####	20 alphanum	Amount on card: #####
Proszę obciążyć moje konto	21 alphanum	Please, charge my account
Proszę uznać moje konto	22 alphanum	Please, credit my account
Transakcja unieważniona	23 alphanum	Transaction cancelled
KOD PIN ZGODNY	24 alphanum	CORRECT PIN CODE
.....	25
podpis posiadacza karty	26	card owner's signature
podpis kasjera	27	cashier's signature
podpis klienta	28	client's signature
ORYGINAŁ	29	ORIGINAL
KOPIA	30	COPY
Sprzedaż: ### #####	31 alphanum	Sales: ### #####
Uznanie: ### #####	32 alphanum	Crediting: ### #####

Gotówka: ### #####	33 alphanum	Cash: ### #####
Prowizja: ### #####	34 alphanum	Commission: ### #####
Razem do zapłaty: ### #####	35 alphanum	Total to be paid: ### #####
AID: #####	36 alphanum	AID: #####
TC: #####	37 alphanum	TC: #####
AAC: #####	38 alphanum	AAC: #####
PSN: #####	39 alphanum	PSN: #####
ATC: #####	40 alphanum	ATC: #####
ARC: #####	41 alphanum	ARC: #####
AAA: ##### TD: #####	42 alphanum	AAA: ##### TD: #####
TAC DEFAULT: #####	43 alphanum	TAC DEFAULT: #####
TAC DENIAL: #####	44 alphanum	TAC DENIAL: #####
TAC ONLINE: #####	45 alphanum	TAC ONLINE: #####
IAC DEFAULT: #####	46 alphanum	IAC DEFAULT: #####
IAC DENIAL: #####	47 alphanum	IAC DENIAL: #####
IAC ONLINE: #####	48 alphanum	IAC ONLINE: #####
Commercial Code #####: #####	49 alphanum	Commercial Code #####: #####
Dodatkowa dana: #####	50 alphanum	Additional data: #####
Nr dowodu tożsamości:.....	51	Id number:
Centrum Autoryzacji:#####	52 alphanum	Authorization Center:#####
POTWIERDZENIE ODMOWY AUTORYZACJI	53	AUTHORISATION REJECT CONFIRMATION
TRANSAKCJA ODRZUCONA	54	TRANSACTION REJECTED
Komunikat systemowy: #####	55 alphanum	System message: #####
Wpłata: ### #####	56 alphanum	Payment: ### #####
Razem: ### #####	57 alphanum	Total: ### #####
Zwrot: ### #####	58 alphanum	Return: ### #####
Cashback: ### #####	59 alphanum	Cashback: ### #####
Cash: ### #####	60 alphanum	Cash: ### #####
SALE: ### #####	61 alphanum	SALE: ### #####
REFUND: ### #####	62 alphanum	REFUND: ### #####
FX RATE: #####	63 alphanum	FX RATE: #####
TRANSACTION CURRENCY: #####	64 alphanum	TRANSACTION CURRENCY: #####
DCC service provided by: #####	65 alphanum	DCC service provided by: #####
REJECTION RECEIPT TRANSACTION WAS	66	REJECTION RECEIPT TRANSACTION WAS
REJECTED SYSTEM MESSAGE: #####	67 alphanum	
CANCELLATION RECEIPT TRANSACTION WAS	68	
CANCELED	69	
PIN VERIFIED	70	
SIGNATURE	71	
Pre-autoryz: ### #####	72 alphanum	
Acquirer/Processor: #####	73 alphanum	
Ecr no: ### Cashier: #####	74 alphanum	
Receipt number: #####	75 alphanum	
Transaction number: #####	76 alphanum	
Invoice number: #####	77 alphanum	
For: #####	78 alphanum	
Client number: #####	79 alphanum	
Card: #####	80 alphanum	
##### Valid date: ##/##	81 alphanum	
Pre-auth: ### #####	82 alphanum	
Sale: ### #####	83 alphanum	
Refund: ### #####	84 alphanum	
In words: #####	85 alphanum	
Statement: #####	86 alphanum	
Commission: ### #####	87 alphanum	
Total amount: ### #####	88 alphanum	

Authorization code: #####	89 alphanum	NON-FISCAL
Points for transaction: #####	90 alphanum	
Points after transaction: #####	91 alphanum	
Amount on the card: #####	92 alphanum	
System message: #####	93 alphanum	
Commercial Code #####	94 alphanum	
Extra data: #####	95 alphanum	
Document ID: NIEFISKALNY	96 alphanum	

Remarks:

1. All parameters alphanumerical.
2. All lines can be moved and duplicated.

23 – GSM number charge confirmation

NIEFISKALNY		NON-FISCAL
Potwierdzenie doładowania numeru GSM	0 - header	GSM number charge confirmation
Potwierdzenie poprawności numeru	1 - header	Number correctness confirmation
Potwierdzenie realizacji doładowania	2 - header	Pre-paid confirmation
Kupon elektroniczny	3 - header	Electronic coupon
Kasa: ### Kasjer: #####	0 alphanum	Cash: ### Cashier: #####
Nr dowodu sprzedaży: #####	1 alphanum	Sales document No. : #####
Kod doładowujący: #####	2 alphanum	Charging code: #####
Dla: #####	3 alphanum	For: #####
Numer telefonu: #####	4 alphanum	Phone number: #####
Potwierdzenie doładowania przez SMS	5	Confirmation of charging by SMS
Wartość PLN: #####	6 alphanum	PLN Value: #####
Potwierdzam prawidłowość numeru telefonu	7	Correctn phone number confirmed
.....	8
podpis klienta	9	client's signature
Marka pre-paid: #####	10 alphanum	Pre-paid brand: #####
Id konta: #####	11 alphanum	Account id: #####
Numer referencyjny: #####	12 alphanum	Reference number: #####
Numer seryjny: #####	13 alphanum	Serial number: #####
Data ważności: #####	14 alphanum	Expiry date: #####
Lp: #####	15 alphanum	In.: #####

Remarks:

1. All parameters alphanumerical.
2. Lines can not be moved and duplicated.
3. Each character of charging code is printed on a format copy as "***".

24 – Currency purchase confirmation

NIEFISKALNY		NON-FISCAL
Potwierdzenie skupu waluty	0 - header	Currency purchase confirmation
Kasa: ### Kasjer: #####	0 alphanum	Cash: ### Cashier: #####

Nr dowodu sprzedaży: #####	1 alphanum	Sales document No.: #####
Skup waluty: ####	2 alphanum	Currency purchase: ####
Kurs skupu waluty: #####	3 alphanum	Currency purchase rate: #####
Wartość PLN: #####	4 alphanum	PLN value: #####
Słownie: #####	5	In words: #####
#####	6 alphanum	#####
NIEFISKALNY		NON-FISCAL

Remarks:

1. All parameters alphanumerical.
2. Lines can not be moved and duplicated.

25 – Discount voucher

NIEFISKALNY		NON-FISCAL
BON RABATOWY	0 - header	DISCOUNT VOUCHER
LISTA TOWARÓW	1 - header	LIST OF GOODS
Sklep:### Kasa:### Kasjer: #####	0 alphanum	Shop:### Cash reg.:### Cashier: #####
Nr dowodu sprzedaży: #####	1 alphanum	Sales document number: #####
PREMIOWANE TOWARY KWOTA PREMII	2	AWARDED GOODS BONUS AMOUNT
TOWAR:#####	3 alphanum	GOODS:#####
RAZEM	4 alphanum	TOTAL
PREMIA:#####	5 alphanum	BONUS: #####
PREMIA:#####	6 alphanum	BONUS: #####
WAŻNY:#####	7 alphanum	VALID:#####
NIEFISKALNY		NON-FISCAL

Remarks:

1. All lines can be moved and duplicated.

26 – Shift report

NIEFISKALNY		NON-FISCAL
RAPORT ZMIANOWY	0 - header	SHIFT REPORT
Zmiana: #####	0 alphanum	Shift: #####
Kasjer: #####	1 alphanum	Cashier: #####
PRZYPADY: #####	2 num	INCOME: #####
Sprzedaż gotówkowa:#####	3 num	Cash sales: #####
Karta #####	4 alphanum, num	Card #####
Czek #####	5 alphanum, num	Check #####
Bon #####	6 alphanum, num	Vouch #####
Wpłaty do kasy: #####	7 num	Payment to cash reg.: #####
Wydania opakowań: #####	8 num	Containers gave out: #####
ROZCHODY: #####	9 num	EXPENSES: #####
Wypłaty z kasy: #####	10 num	Withdrawals from cash: #####
Zwroty opakowań: #####	11 num	Container returns: #####
ROZLICZENIE	12	SETTLEMENT
Gotówka: #####	13 num	Cash: #####

Karta #####: #####	14 alphanum,num	Card #####: #####
Czek #####: #####	15 alphanum,num	Check #####: #####
Bon #####: #####	16 alphanum,num	Voucher #####: #####
Opakowania: #####	17 num	Containers: #####
RAZEM	18	TOTAL
STAN KASY: #####	19 num	CASH STATE: #####
IŁOŚĆ PARAGONÓW: #####	20 num	RECEIPT NUMBER: #####
IŁOŚĆ ANULOWANYCH PARAGONÓW: #####	21 num	CANCELLED RECEIPTS NUMBER: #####
Liczba stornowanych pozycji: #####	22 num	Cancelled items number: #####
Początek zmiany: #####	23 alphanum	Shift start: #####
Koniec zmiany: #####	24 alphanum	Shift end: #####
NIEFISKALNY		NON-FISCAL

Remarks:

- All lines can be moved and duplicated.

27 – Account settlement

NIEFISKALNY		NON-FISCAL
Rozliczenie konta	0 - header	Account settlement
Saldo karty upominkowej	1 - header	Gift card balance
Karta upominkowa	2 - header	Gift card
Potwierdzenie płatności karta	3 - header	Card payment confirmation
Wymiana środków płatności	4 - header	Payment form exchange
Rozliczenie konta #####	0 alphanum	Account settlement#####
Stan konta przed transakcją: #####	1 alphanum	Account state before transaction: #####
Przyznana premia: #####	2 alphanum	Granted bonus: #####
Wykorzystane: #####	3 alphanum	Used: #####
Stan konta po transakcji: #####	4 num	Account state after trans.: #####
Artykuł nr: #####	5 alphanum	Item no.: #####
Nazwa karty: #####	6 alphanum, num	Card name: #####
Numer karty: #####	7 num	Card number: #####
Numer autoryzacji: #####	8 num	Authorization number: #####
Data ważności karty: #####	9 num	Card expiry date: #####
Saldo karty: #####	10 num	Card balance: #####
EGRC - Pobrano	11 num	EGRC - Charged
Karta EGRC #####	12 alphanum,num	EGRC Card #####
Środek pł. Wydano #####	13 alphanum,num	Payment form Gave out ####
NIEFISKALNY		NON-FISCAL

Remarks:

- All lines can be moved and duplicated.

28 – Cash register/cashier report

NIEFISKALNY		NON-FISCAL
RAPORT KASJERA	0 - header	CASHIER REPORT
RAPORT SKRÓCONY	1 - header	SHORT REPORT
Rodzaje płatności	0	Payment forms

Konto klienta	:	#####	1	Cleint's account	:	#####
Routex	:	#####	2	Routex	:	#####
LOMO	:	#####	3	LOMO	:	#####
DKV	:	#####	4	DKV	:	#####
UTA	:	#####	5	UTA	:	#####
Routex Manual	:	#####	6	Routex Manual	:	#####
LOMO Manual	:	#####	7	LOMO Manual	:	#####
DKV Manual	:	#####	8	DKV Manual	:	#####
UTA Manual	:	#####	9	UTA Manual	:	#####
Karta bankowa i T&E	:	#####	10	Bank card and T&E	:	#####
Czeki	:	#####	11	Checks	:	#####
Vouchery	:	#####	12	Vouchers	:	#####
Gotówka w PLN	:	#####	13	Cash in PLN	:	#####
Dewizy przel.	:	#####	14	Transf. For. Curr.:	:	#####
RAZEM	:	#####	15	TOTAL	:	#####
Przychody	:		16	Income	:	
Kwota otwarcia	:	#####	17	Opening amount	:	#####
Sprzedaż	:	#####	18	Sales	:	#####
Wpłaty	:	#####	19	Payment	:	#####
Wpłyn. na rach	:	#####	20	Crediting an acc.:	:	#####
Różnice inkaso	:	#####	21	Collection discr.:	:	#####
RAZEM	:	#####	22	TOTAL	:	#####
Rozchody	:		23	Expenses	:	
Zwroty	:	#####	24	Returns	:	#####
Wypłaty	:	#####	25	Withdrawals	:	#####
Kwota zamknięcia	:	#####	26	Closing amount	:	#####
RAZEM	:	#####	27	TOTAL	:	#####
Płatności w PLN	:		28	Payments in PLN	:	
Czeki w sejfie	:	#####	29	Checks in safe	:	#####
Czeki w kasie	:	#####	30	Checks in cash reg.:	:	#####
RAZEM	:	#####	31	TOTAL	:	#####
Vouch. w sejfie	:	#####	32	Vouch in safe	:	#####
Vouch. w kasie	:	#####	33	Vouch in cash reg.:	:	#####
RAZEM	:	#####	34	TOTAL	:	#####
Gotówka w sejfie	:	#####	35	Cash in safe	:	#####
Gotówka w kasie	:	#####	36	Cash in cash reg.:	:	#####
RAZEM	:	#####	37	TOTAL	:	#####
Płatności w dewizach	:		38	Payments in for. curr.	:	
DM w sejfie	:	#####	39	DM in safe	:	#####
DM w kasie	:	#####	40	DM in cash reg.:	:	#####
RAZEM	:	#####	41	TOTAL	:	#####
USD w sejfie	:	#####	42	USD in safe	:	#####
USD w kasie	:	#####	43	USD in cash reg.:	:	#####
RAZEM	:	#####	44	TOTAL	:	#####
GBP w sejfie	:	#####	45	GBP in safe	:	#####
GBP w kasie	:	#####	46	GBP in cash reg.:	:	#####
RAZEM	:	#####	47	TOTAL	:	#####
Sejf	:		48	Safe	:	
Nr schowka	:	###	49	Box No.	:	###
Gotówka w PLN	:	#####	50	Cash in PLN	:	#####
Czeki	:	#####	51	Checks	:	#####
Voucher	:	#####	52	Voucher	:	#####
DM	:	#####	53	DM	:	#####
USD	:	#####	54	USD	:	#####
GBP	:	#####	55	GBP	:	#####
Rozliczenie kasjera	:		56	Cashier settlement	:	

Czeki w kasie :	#####	57	Check in cash reg.:	#####
Zliczono czeki :	#####	58	Checks counted :	#####
RÓŻNICA	#####	59	DISCREPANCY	#####
Vouch. w kasie :	#####	60	Vouch.in cash reg.:	#####
Zlicz. Vouch. :	#####	61	Counted Vouch. :	#####
RÓŻNICA	#####	62	DISCREPANCY	#####
Gotówka w PLN :	#####	63	Cash in PLN :	#####
Zliczono gotów. :	#####	64	Cash counted :	#####
RÓŻNICA	#####	65	DISCREPANCY	#####
DM w kasie :	#####	66	DM in cah reg. :	#####
DM zliczono :	#####	67	DM counted :	#####
RÓŻNICA	#####	68	DISCREPANCY	#####
USD w kasie :	#####	69	USD in cash reg. :	#####
USD zliczono :	#####	70	USD counted :	#####
RÓŻNICA	#####	71	DISCREPANCY	#####
GBP w kasie :	#####	72	GBP in cash reg. :	#####
GBP zliczono :	#####	73	GBP counted :	#####
RÓŻNICA	#####	74	DISCREPANCY	#####
Zmiana zamknięta		75	Shift closed	
Zmiana nr ###		76	Shift No. ###	
Kasjer: #####		77 alphanum	Cashier: #####	
NIEFISKALNY			NON-FISCAL	

Remarks

1. All lines can be moved and duplicated.
2. In line 77 letter parameter, other parameters numerical.

29 – Payment/withdrawal

NIEFISKALNY		NON-FISCAL
POKWITOWANIE WPLĄTY POKWITOWANIE WYPŁĄTY Numer:#####	0 - header 1 - header 0	PAYMENT RECEIPT WITHDRAWAL RECEIPT Number:#####
Komu: #####	1 alphanum	To whom #####
TYTUŁ WPLĄTY/WYPŁĄTY ILE	2	PAYMENT/WITHDRAWAL TITLE
Przedpłata do par.nr	3	Advanced payment to par.no.#####
Zabezpieczenie	4	Collateral
Do zafakturowania	5	Te bo invoiced
Bilon	6	Coins
Wpłata	7	Payment
Wpłata	8	Payment
Sejf	9	Safe
Wypłata	10	Withdrawal
Wypłata	11	Withdrawal
Do banku	12	To bank
Bilon	13	Coins
Wypłata	14	Withdrawal
Razem	15	Total
Powyższą kwotę otrzymałem	16	I obtained the above value
-----	17	-----
PODPIS	18	SIGNATURE
NIEFISKALNY		NON-FISCAL

Remarks:

1. Line 1 letter parameter, other parameters numerical.
2. All lines can be moved and duplicated.

30 – Counter state

NIEFISKALNY		NON-FISCAL
STANY LICZNIKÓW	0 - header	COUNTER STATES
Pompa ## ##### stan #####lit.	0	Pump ## ##### stan #####lit.
Ogółem liczniki	1	Counters in general
Paliwo #####lit.	2	Fuel #####lit.
NIEFISKALNY		NON-FISCAL

Remarks:

1. In all lines numerical parameter occurs.
2. All lines can be moved and duplicated.

31 – Refuel report

NIEFISKALNY		NON-FISCAL
RAPORT TANKOWANIA	0 - header	REFUEL REPORT
Nr Gatunek Obj. zb. Rezerwa Alarm	0	No. Sort Cont. vol. Reserve Alarm
## #####	1	## #####
NIEFISKALNY		NON-FISCAL

Remarks:

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

32 – Card payment confirmation

NIEFISKALNY		NON-FISCAL
KARTA KREDYTOWA	0 - header	CREDIT CARD
Numer transakcji: #####	0 num	Transaction number: #####
Data: ##### Godzina: ####	1 num	Date: ##### Hour: ####
Nazwa karty: #####	2 alphanum	Card name: #####
Numer karty: #####	3 num	Card number: #####
Transakcja karty: #####	4 num	Card transaction: #####
Numer autoryzacji: #####	5 num	Authorization number: #####
Identyfikator autoryzacji: #####	6 num	Authorisation Id: #####
Lp. Nazwa jm Ilość	7	In. Name mu Quantity
## #####	8 num, alphanum, alphanum, num	## #####
KWOTA: #####	9 num	AMOUNT: #####
.....	10
podpis	11	signature
Posiadacz: #####	12 alphanum	Owner: #####
Dane ident.: #####	13 alphanum	Id data: #####
Dane ident.: #####	14 alphanum	Id data: #####
Przebieg: #####	15 num	Course: #####
Kod kierowcy: #####	16 num	Driver code : #####
Nr rej.: #####	17 alphanum	Reg. No.: #####
NIEFISKALNY		NON-FISCAL

Remarks:

1. All lines can be moved and duplicated.

33 – Currency in safe

NIEFISKALNY		NON-FISCAL
WALUTA W SEJFIE	0 - header	CURRENCY IN SAFE
OGÓŁEM GOTÓWKA W SEJFIE : #####	0	TOTAL CASH IN SAFE : #####
### ##### W SEJFIE : #####	1	### ##### IN SAFE : #####
OGÓŁEM CZEKI W SEJFIE : #####	2	TOTAL CHECKS IN SAFE : #####
OGÓŁEM VOUCHERY W SEJFIE : #####	3	TOTAL VOUCHERS IN SAFE : #####
OGÓŁEM W SEJFIE : #####	4	TOTAL IN SAFE : #####
NUMER SKRYTKI #####	5	BOX NUMBER #####
NIEFISKALNY		NON-FISCAL

Remarks:

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

34 – Fuel alarm report

NIEFISKALNY		NON-FISCAL

RAPORT ALARMU PALIWA	0 - header	FUEL ALARM REPORT
Zbiornik nr #####	0	Container No. #####
Paliwo opis #####	1	Fules description #####
RODZAJ ALARMU:	2	ALARM TYPE:
#####	3	#####
#####	4	#####
#####	5	#####
DATA #####	6	DATE #####
CZAS #####	7	TIME #####

Remarks:

1. All lines numerical.

35 – Car wash ticket

NIEFISKALNY	0 - header	NON-FISCAL
BILET DO MYJNI		CAR WASH TICKET
WAŻNY NA ## PROGRAM NR ## ZŁ #####	0	VALID FOR ## PROGRAM NO. ## ZŁ #####
W CELU URUCHOMIENIA MYJNI WPROWADŹ	1	IN ORDER TO START CAR WASH INSERT
KOD PROGRAMU	2	PROGRAM CODE
K O D : # # # # #	3	C O D E : # # # # #
WYDANY W DNIU ##### CZAS #####	4	ISSUED ON ##### TIME #####
ZAPRASZAMY DO KORZYSTANIA	5	WE INVITE YOU TO US
Z NASZYCH MYJNI	6	OUR CAR WASH
NIEFISKALNY		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

NIEFISKALNY	0 - header	NON-FISCAL
STAN ZBIORNIKÓW RAPORT		CONTAINER STATE REPORT
MODUŁ: ### POZYCJA:### SONTA NR ####	0 alphanum, num, num	MODULE:###POSITIONS:###PROBE NR.####
OPIS: #####	1 alphanum	DESCRIPTION: #####
PRODUKT: #####	2 alphanum	PRODUCT: #####
POZIOM OBJĘTOŚĆ	3	LEVEL VOLUME
(CM) (LTR)	4	(CM) (LTR)
POJEMNOŚĆ	5	VOLUME
PRODUKT :	6	PRODUCT :
WODA :	7	WATER :
RAZEM :	8	TOTAL :
KOREKTA O TEMPERATURE	9	TEMPERATURE CORRECTION
PRODUKT :	10	PRODUCT :

WODA : #####	11	WATER : #####
RAZEM : #####	12	TOTAL : #####
MAX.POZIOM NAPEŁ: #####	13	MAX.FILLING LEVEL: #####
MAX.DO NAPEŁNIENIA: #####	14	MAX.T BE FILLED: #####
ŚREDNIA TEMPERATURA PRODUKTU: #####	15	AVERAGE PRODUCT TEMPERATURE: #####
NIEFISKALNY		NON-FISCAL

Remarks:

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

37 – Fuel supply report

NIEFISKALNY		NON-FISCAL
RAPORT DOSTAWY PALIW	0 - header	FUEL SUPPLY REPORT
ZBIORNIK: #####	0	CONTAINER: #####
OZNACZENIE: ##### PRODUKT: #####	1	MARKING: ##### PRODUCT: #####
RAPORT DOSTAWY - STABILNYCH	2	SUPPLY REPORT - STABLE
PRZED DOSTAWĄ	3	BEFORE SUPPLY
OBJĘTOŚĆ PRODUKTU: #####	4	PRODUCT VOLUME: #####
OBJĘTOŚĆ WODY: #####	5	WATER VOLUME: #####
OBJ. DO WYPEŁ.: #####	6	VOLUME TO BE FILLED: #####
TEMPERATURA PRODUKTU: #####	7	PRODUCT TEMPERATURE: #####
PO DOSTAWIE	8	AFTER SUPPLY
OBJĘTOŚĆ PRODUKTU: #####	9	PRODUCT VOLUME: #####
OBJĘTOŚĆ WODY: #####	10	WATER VOLUME: #####
MAX. DO WYPEŁ.: #####	11	MAX. TO BE FILLED: #####
TEMPERATURA PRODUKTU: #####	12	TEMPERATURA PRODUKTU: #####
DOSTAWA	13	DOSTAWA
DATA: ##### CZAS: #####	14	DATE: ##### TIME: #####
OBJĘTOŚĆ: #####	15	VOLUME: #####
TEMPERATURA	16	TEMPERATURE
DOSTAWA NETTO(15C): #####	17	NET SUPPLY(15C): #####
TEMPERATURA PRODUKTU: #####	18	PRODUCT TEMPERATURE: #####
KSIĘGOWA OBJ.DOSTAWY:#####	19	ACCOUNTING SUPPLY VOL.:#####
ROZBIEŻNOŚĆ: #####	20	DISCREPANCY: #####
NIEFISKALNY		NON-FISCAL

Remarks:

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

38 – BP partnerclub shift report

NIEFISKALNY		NON-FISCAL
BP partnerclub	0 - header	BP partnerclub
Nr terminala nazwa stacji	0	No. of terminal name of station
#####	1 num, alphanum	#####

Nr kolejny	#####	2	Following No.	#####
Kod terminala	#####	3	Terminal code	#####
Operator	#####	4	Operator	#####
Czas rozpoczęcia	#####	5	Init. time	#####
Data rozpoczęcia	#####	6	Init. date	#####
Czas zakończenia	#####	7	Fin. time	#####
Data zakończenia	#####	8	Fin. Date	#####
Tariff PKT man. TR. man.		9	Tariff PKT man. TR. man.	
TAR ##:	#####	10	TAR ##:	#####
% Wydania	#####	11	% Issued	#####
Litry sprzedane	#####	12	Sold litres	#####
Litry wydane	#####	13	Gave out literd	#####
DAR	#####	14	DAR	#####
Punkty wymienione	#####	15	Exchanged points	#####
Punkty wczytane	#####	16	Loaded points	#####
Trans. Wydano	#####	17	Trans. Issued	#####
NIEFISKALNY			NON-FISCAL	

Remarks:

1. Lines must occur in a defined order.
2. Line 10 (TAR) can be multiplied.
3. In line 1 there is a letter parameter, other parameters are numerical.

39 – Gift confirmation

NIEFISKALNY			NON-FISCAL
BP partnerclub	0 - header		BP partnerclub
Nr terminala nazwa stacji	0	No. of terminal name of station	
#####	1	#####	#####
Ilość Podarunek numer	2	Number Gisft number	#####
Punktów za podarunek	3	Points for gift	#####
Razem punkty z podarunek	4	Total points for gift	#####
Numer karty	5	Card number	#####
Punkty początkowe	6	Initial points	#####
Punkty skasowane	7	Cancelled points	#####
Nowych punktów razem	8	Total new points	#####
Nazwa	9	Name	#####
Dziękujemy. Do zobaczenia.	10	Thank you. See you soon.	
Nr terminala	11	No. of terminal	#####
Kod sprzedawcy	12	Seller code	#####
Data Kasjer nr	13	Date Cashier No.	#####
Czas	14	Time	#####
NIEFISKALNY		NON-FISCAL	

Remarks:

4. Lines must occur in the defined order.
5. In line 1 and 9 there is a letter parameter, other parameters are numerical.

40 – Conformation of giving out a gift

NIEFISKALNY		NON-FISCAL
BP partnerclub	0 - header	BP partnerclub
Czas ##### Data #####	0	Time ##### Date #####
Ilość ##### Podarunek numer #####	1	Quantity ##### Gift number #####
Punktów za podarunek #####	2	Points for gift #####
Razem punkty z podarunek #####	3	Total points for giftsek #####
Nazwa #####	4	Name #####
NIEFISKALNY		NON-FISCAL

Remarks:

- Line 4 is letter parameter, other lines are numerical.
- All lines can be moved and duplicated.

41 – Order

NIEFISKALNY		NON-FISCAL
ZAMÓWIENIE	0 - header	ORDER
Kelner: #####	0 alphanum	Waiter: #####
Stolik: #####	1 alphanum	Table: #####
- - - - -	2	- - - - -
Towar: #####	3 alphanum	Goods: #####
Opis: #####	4 alphanum	Dscription: #####
Ilość: #####	5 alphanum	Quantity: #####
NIEFISKALNY		NON-FISCAL

Remarks:

- All lines can be moved and duplicated.
- 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	alphanumeric	By virtue of
Kod #####	14	alphanumeric	Code
Liczba #####	15	alphanumeric	Figure
Typ #####	16	alphanumeric	Type
Stan #####	17	alphanumeric	State
Zmiana #####	18	alphanumeric	Change
Z #####	19	alphanumeric	From
Na #####	20	alphanumeric	To
Konto #####	21	alphanumeric	Account
Kurs #####	22	alphanumeric	Exchange rate
Operator #####	23	alphanumeric	Operator
Dla #####	24	alphanumeric	For
Klient #####	25	alphanumeric	Client
cd. #####	26	alphanumeric	cont.
Ilość #####	27	alphanumeric	Quantity
Wpłata #####	28	alphanumeric	Payment
Wypłata #####	29	alphanumeric	Withdrawal
Opłata #####	30	alphanumeric	Fee
Dopłata #####	31	alphanumeric	Subsidy
Przedpłata #####	32	alphanumeric	Advance payment
Prowizja #####	33	alphanumeric	Commission
Odsetki #####	34	alphanumeric	Interest
Kwota #####	35	alphanumeric	Amount
Przychody #####	36	alphanumeric	Incomes
Rozchody #####	37	alphanumeric	Expeses
Sprzedaż #####	38	alphanumeric	Sales
Uznanie #####	39	alphanumeric	Crediting
Saldo #####	40	alphanumeric	Balance
Gotówka #####	41	alphanumeric	Cash
Opakowanie #####	42	alphanumeric	Container
Rabat #####	43	alphanumeric	Discount
Narzut #####	44	alphanumeric	Surcharge
Promocja #####	45	alphanumeric	Promotion
Premia #####	46	alphanumeric	Bonus
Płatność #####	47	alphanumeric	Payment
Forma #####	48	alphanumeric	Form
Środek płat. #####	49	alphanumeric	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	alphanumeric	Signature
Sprawdził #####	57	alphanumeric	Verified by
Zatwierdził #####	58	alphanumeric	Confirmed by

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:

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

Przykład:

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

Sample of the 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		
2004-05-08		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:

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

Example:

```
[STX]dbchkline[TAB]vt0[TAB]naMILK[TAB]#CRC16[ETX]
```

[dbchkend] Data base control end**Command Id:**

dbchkend

Input parameters:

none

Device response:

standard

Remarks:

1. 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:

1. Availability in read only mode: NO

Response example:

```
[STX]dbchkplu[TAB]vv101,00[TAB]blN[TAB]#CRC16[ETX]
```

Example:

```
[STX]dbchkplu[TAB]vt1[TAB]naMILK[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 sending at least 100 selling items with discount and item description in an initiated transaction.

Device response:

standard

Remarks:

1. Transaction initialization can be performed only if there is no possibility to overflow current daily totalizers (it means if it is possible to print fiscal receipt with maximum total value).
2. 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	
	NIP 333-456-78-90			NIP 333-456-78-90	
	2010-04-17	38		2010-04-17	38
	PARAGON FISKALNY			FISCAL RECEIPT	
	CUKIER 1 x1,11 1,11B			SUGAR 1 x1,11 1,11B	
	SOK 1 x2,22 2,22A			JUICE 1 x2,22 2,22A	
	KAPUSTA 1 x3,33 3,33C			CABBAGE 1 x3,33 3,33C	
	CZEKOLADA 1 x4,44 4,44D			CHOCOLATE 1 x4,44 4,44D	
	- - - - -			- - - - -	
	SPRZEDAŻ OPODATK. A 2,22			VAT RATE A 2,22	
	PTU A 11,00 % 0,22			VAT A 11,00 % 0,22	
	SPRZEDAŻ OPODATK. B 1,11			VAT RATE B 1,11	
	PTU B 22,00 % 0,20			VAT B 22,00 % 0,20	
	SPRZEDAŻ OPODATK. C 3,33			VAT RATE C 3,33	
	PTU C 33,00 % 0,83			VAT C 33,00 % 0,83	
	SPRZEDAŻ OPODATK. D 4,44			VAT RATE D 4,44	
	PTU D 44,00 % 1,36			VAT D 44,00 % 1,36	
	SUMA PTU 2,61			VAT TOTAL 2,61	
	SUMA PLN 11,10			TOTAL 11,10	
	00002 #001 KIEROWNIK 10:49			00002 #001 MANAGER 10:49	
	37C0A7B6998117ACBDE172799D5285D39159A11D			37C0A7B6998117ACBDE172799D5285D39159A11D	
	{PL} EFG 33333333			{PL} EFG 33333333	

GOTÓWKA	11,10 PLN	CASH	11,10 PLN

[trfvinit] Vat invoice initialization

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 Up to 26 characters
ss	Seller's name and surname	NO	alphanum.	
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:

1. Transaction initialization can be performed only if there is no possibility to overflow current daily totalizers (it means if it is possible to print VAT invoice with maximum total value).
2. Availability in read only mode: NO

Example:

```
[STX]a VAT trfvinit[TAB]nb12[TAB]ni222-333-44-55[TAB]pd22/09/2006[TAB]ptCash[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		SHOP	
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 hundred 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	Amount	
st	Item cancellation flag false-no cancellation, true – item cancellation	NO	BOOL	Default false
wa	Total amount	NO	Amount	
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	Amount	Discount can not 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. Limits:
 - (a) Block mode – fiscal receipts and VAT invoices: max 157 lines.
 - (b) On line mode – fiscal receipts can contains up to 500 lines.
7. Availability in read only mode: NO

Example:

```
[STX]trline[TAB]naMILK[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	Amount	As in trline command
na	Discount/surcharge name	NO	alphanum.	Up to 25 characters. Default empty
rt	Amount with granted discount.	NO	Amount	

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
	46C0A7B6998117ACBDE172799D5285D39159A12C			46C0A7B6998117ACBDE172799D5285D39159A12C	
	{PL} ABC 12345678			{PL} ABC 12345678	
	GOTÓWKA	72,00		CASH	72,00

[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 <i>trline</i> 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 <i>trline</i> command
rw	Discount/surcharge amount value	NO	Num.	As in <i>trline</i> command
na	Discount/surcharge name	NO	alphanum.	Default empty. Up to 25 characters.

Device response:

standard

Remarks:

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

Example:

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

Printout:

example receipt with sales line discount

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 82	2007-12-04 82
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
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
3A90A7B6998117ACBDE172799D5285D39159A5D7		3A90A7B6998117ACBDE172799D5285D39159A5D7	
{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 <i>trline</i> command
rw	Promotion value	YES	Num.	As in <i>trline</i> 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:

1. 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
9F30A7B6998117ACBDE172799D5285D39159A77A		9F30A7B6998117ACBDE172799D5285D39159A77A	
{PL} ABC 12345678		{PL} ABC 12345678	
GOTÓWKA	50,00	CASH	50,00

[trdiscntsubtot] Discount/surcharge from subtotal**Command Id:**

trdiscntsubtot

Input parameters:

Name	Description	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 <i>trline</i> command
rw	Amount discount/surcharge value	NO	Amount	As in <i>trline</i> command

Device response:

standard

Remarks:

1. If both fields rp and rw occur, discount has a per cent value 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 10,00			VAT RATE C 11,67	
	PTU C 3,00 % 0,29			VAT C 3,00 % 0,34	
	SUMA PTU 4,05			VAT TOTAL 6,84	
	SUMA 50,00			TOTAL 70,00	
	00007 #001 KIEROWNIK 13:57			00008 #001 MANAGER 14:24	
	9F30A7B6998117ACBDE172799D5285D39159A77A			9F30A7B6998117ACBDE172799D5285D39159A77A	
	{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 <i>trline</i> command
rw	Discount/surcharge value of amount cent type	NO	Amount	As in <i>trline</i> 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]naDiscount[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
8100A7B6998117ACBDE172799D5285D39159AAF6	8100A7B6998117ACBDE172799D5285D39159AAF6
{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:

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

Example:

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

Printout:

Example printout of container transaction:

```

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

```

```

|      P O S N E T      |
|  F I S C A L   P R I N T E R      |
|      999-888-77-66      |
|2007-12-04              119|
|      N I E F I S K A L N Y      |
|  Returnable container settlement  |
|Return. container 5123      1x1,00 1,00|
|      N O N - F I S C A L      |
|      #001      MANAGER      14:48|
|      12345678      |
|      |
|-----|
|TO BE PAID PLN              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	Amount	As in <i>trline</i> command
il	Number of containers	NO	Num.	Default 1,000
wa	Total = price x quantity	NO	Num.	As in <i>trline</i> command

Device response:

standard

Remarks:

1. In order to enable container turnover, transaction should be open: trinit (goods and containers turnover) or trpackinit (only container turnover).
2. 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 <i>trpack</i> command
pr	Price of container	YES	Amount	As in <i>trline</i> command
il	Number of containers	NO	Num.	Default 1,000
wa	Total = price x quantity	NO	Num.	As in <i>trline</i> command

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
-----	-----
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
Opakowanie zwr.5123 1x0,05 -0,05	Ret. container 5123 1x0,05 -0,05
Wydania opakowań	Out
Opakowanie zwr.3215 1x0,07 0,07	Ret. container 3215 1x0,07 0,07
Przyjęcia opakowań	In
Opakowanie zwr.7215 1x0,07 -0,07	Ret. container 7215 1x0,07 -0,07
Opakowanie zwr.111 1x0,30 -0,30	Ret. container 111 1x0,30 -0,30

| - - - - - |
| DO ZAPŁATY PLN 5549,65 |

| - - - - - |
| TO BE PAID PLN 5549,65 |



End of transaction

[trpayment] Payment form in transaction

Command Id:

trpayment

Input parameters:

Name	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	Amount	Payment value or change value – depending on <i>re</i> parameter. <i>As in trline</i> command
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]naApples[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      |
| D R U K A R K A F I S K A L N A |
|-----|
|      NIP 333-456-78-90      |
|2010-04-17                      40|
|      PARAGON FISKALNY      |
|Jabłka                      1 x2,00 2,00B|
|-----|
```

```
|      P O S N E T      |
| F I S C A L P R I N T E R |
|-----|
|      NIP 333-456-78-90      |
|2010-04-17                      40|
|      FISKAL RECEIPT      |
|Apples                      1 x2,00 2,00B|
|-----|
```

SPRZEDAŻ OPODATK. B	2,00	VAT RATE B	2,00
PTU B 22,00 %	0,36	VAT B 22,00 %	0,36
SUMA PTU	0,36	VAT TOTAL	0,36
SUMA PLN	2,00	TOTAL	2,00
00003 #001 KIEROWNIK 11:01		00003 #001 MANAGER 11:01	
DBCBCB47CAF454BF710DF9DB1DA1871168D7BCEB		DBCBCB47CAF454BF710DF9DB1DA1871168D7BCEB	
{PL} EFG 33333333		{PL} EFG 33333333	
Karta 5,00 PLN		Card 5,00 PLN	
RESZTA 3,00 PLN		CHANGE 3,00 PLN	

[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: 9999999999
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 <i>re</i> parameter in <i>trpayment</i> command

Device response:

standard

Remarks:

1. 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			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 333-456-78-90			NIP 333-456-78-90	
	2010-04-17	43		2010-04-17	43
	PARAGON FISKALNY			FISCAL RECEIPT	
	Szczypiorek 1/rkg x100,00 100,00A			Chive 1/rkg x100,00 100,00A	
	- - - - -			- - - - -	
	SPRZEDAŻ OPODATK. A	100,00		VAT RATE A	100,00
	PTU A 11,00 %	9,91		VAT A 11,00 %	9,91
	SUMA PTU	9,91		VAT TOTAL	9,91
	SUMA PLN	100,00		TOTAL	100,00
	00006 #001 KIEROWNIK	11:05		00006 #001 MANAGER	11:05
	BB9ECD81D15499C47F09A792832FA2B53E3B931F			BB9ECD81D15499C47F09A792832FA2B53E3B931F	
	{PL} EFG 33333333			{PL} EFG 33333333	
	WALUTA 1 Kn = 2,0000 PLN			CURRENCY 1 Kn = 2,0000 PLN	
	50,01 Kn	100,02 PLN		50,01 Kn	100,02 PLN
	RESZTA	0,02 PLN		CHANGE	0,02 PLN

[trpaymentcanc] Cancellation of payment forms in transaction**Command Id:**

trpaymentcanc

Input parameters:

none

Device response:

standard

Remarks:

1. 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:

1. Subtotal is shown on client display and subtotal is printed on a receipt.
2. In off-line mode it returns always OK (No subtotal available in that mode).
3. If this command is sent in on line mode before first transaction, it's causes error.

Example:`[STX]showsubtotal[TAB]#CRC16[ETX]`**Printout:**

Example printout after using shows subtotal command

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

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

[trsubtotcanc] Cancellation of data inserted in subtotal**Command Id:**

trsubtotcanc

Input parameters:

none

Device response:

standard

Remarks:

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

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

[trend] End of 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, trncancel

Input parameters:

none

Device response:

standard

Remarks:

1. *trncancel* command is synonymous with *prncancel* order.
2. Availability in read only mode: YES

Example:

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

Printout:**Example of a canceled receipt**

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

```
|          P O S N E T          |
|          F I S C A L P R I N T E R          |
|          999-888-77-66          |
|2007-12-04                      126|
|          F I S C A L R E C E I P T          |
|Ballpoint pen          1 x10,00 10,00C|
|Notebook          1 x190,99 190,99A|
|Booklet          1 x30,00 30,00B|
|          C A N C E L L E D          |
|          #001          M A N A G E R          15:29|
|          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 – Nr transakcji (Transaction number)	numerical
1 – Punkty (Points)	numerical
2 – Suma punktów (Total points)	numerical
3 – Nr rejestracyjny (Registration number)	numerical
4 – Nazwisko (Surname)	letter
5 – Karta (Card)	letter
6 – Numer karty (Card number)	numerical
7 – Ważna do (Valid until)	numerical
8 – Kasjer (Cashier)	numerical
9 – Nazwa. kasjera (Cashier name)	letter
10 – Zaliczka (Advance payment)	numerical
11 – Waluta (Currency)	alphanumeric
12 – Przelicznik (Exchange rate)	numerical
13 – Nr zamówienia (Order number)	numerical
14 – Nr pracownika (Employee number)	numerical
15 – Nazw. Pracownika (Employee name)	letter
16 – Konto przed tr. (Account before tr.)	numerical
17 – Przyznano (Granted)	numerical
18 – Wykorzystano (Used)	numerical
19 – Konto po trans. (Account after trans.)	numerical
20 – Klient stały (Permanent client)	alphanumeric
21 - Voucher	numerical
22 – Wartość Voucher (Voucher value)	numerical
23 – Zapłata Voucher (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 – Ilość sprzedanych towarów (Number of sold goods)	numerical
27 – Numer pracownika (Employee number)	numerical
28 – Numer klienta (Client number)	numerical
29 – Udzielono łącznie rabatu (Granted total discount)	numerical
30 – Numer (Number)	alphanumeric

31 – Kod (Code)	alphanumeric
32 – Nazwa (Name)	alphanumeric
33 – Opis (Description)	alphanumeric
34 – Liczba (Number)	alphanumeric

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]naTomato juice [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]id2 na987[TAB]#CRC16[ETX]

[STX]trftrln[TAB]id15[TAB]naJan Kowalski[TAB]#CRC16[ETX]

[STX]trftrend[TAB]#CRC16[ETX]

Printout:

Example printout 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			F I S C A L P R I N T E R	
	999-888-77-66			999-888-77-66	
	2007-12-05	133		2007-12-05	133
	PARAGON FISKALNY			FISCAL RECEIPT	
	Sok pomidorowy	1 x3,50 3,50B		Tomato juice	1 x3,50 3,50B
	- - - - -	- - - - -		- - - - -	- - - - -
	SPRZEDAŻ OPODATK. B	3,50		B RATE VAT SALES	3,50
	PTU B 7,00 %	0,23		VAT B 7,00 %	0,23
	SUMA PTU	0,23		VAT SUM	0,23
	SUMA	3,50		SUM	3,50
	00018 #001 KIEROWNIK	09:42		00018 #001 MANAGER	09:42
	3E1ECD81D15499C47F09A792832FA2B53E3B97A4			3E1ECD81D15499C47F09A792832FA2B53E3B97A4	
	{PL} ABC 12345678			{PL} ABC 12345678	
	GOTÓWKA	3,50		CASH	3,50

|Suma punktów: 987|
|Nazw. pracownika: Jan Kowalski|

|Points total: 987|
|Employee's name: Jan Kowalski|



[trftrend] Footer end after transaction**Command Id:**

trftrend

Input parameters:

none

Device response:

standard

Remarks:

1. Command enables finishing a transaction in which containers or additional lines are printed (trpackpnend, trftrln).
2. 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

[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:

1. Availability in read only mode: NO

Example:

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

Printout:

```

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

```

```

|           P O S N E T           |
|   F I S C A L   P R I N T E R   |
|-----|
|           NIP 000-000-00-02           |
|2004-05-07                               31|
|           N O N - F I S C A L           |
|-----|
|           Cashier shift start           |
|-----|
|Cashier:                               KAJTEK|
|Cash register number                               321|
|-----|
|           N O N - F I S C A L           |
|           #321   KAJTEK               12:36 |
|           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:

1. Availability in read only mode: NO

Example:

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

Printout:

```

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

```

```

|          P O S N E T          |
|   F I S C A L   P R I N T E R   |
|-----|
|          NIP 000-000-00-02          |
|2004-05-07                          32|
|   N O N - F I S C A L   |
|-----|
|          Cashier shift end          |
|-----|
|Cashier:                          KAJTEK|
|Cash register number              321|
|-----|
|   N O N - F I S C A L   |
|          #321   KAJTEK          12:36 |
|          12345678          |

```


Verification of control numbers

[trfvverinit] Receipt/VAT invoice verification initialization

Command Id:

trfvverinit

Input parameters:

none

Device response:

standard

Remarks:

1. 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:

1. Availability in read only mode: NO

Example

```
[STX]trfvverline[TAB]naCheese [TAB]vt2[TAB]#CRC16[ETX]
```

[trfvverend] Receipt/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:

1. Availability in read only mode: NO

Example:

```
[STX]trfvverend[TAB]si7791B1F3404714CF7B8464D4AC84827277942A13[TAB]to234[TAB]va23[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	ISSUE 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



[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	Totalizer	For inactive VAT rates it should be zero. Last two digits constitutes a decimal part of the number.
pb	VAT B net sales, receipts	YES	Totalizer	
pc	VAT C net sales, receipts	YES	Totalizer	
pd	VAT D net sales, receipts	YES	Totalizer	
pe	VAT E net sales, receipts	YES	Totalizer	
pf	VAT F net sales, receipts	YES	Totalizer	
pg	VAT G net sales, receipts	YES	Totalizer	
fa	VAT A net sales, invoices	YES	Totalizer	
fb	VAT B net sales, invoices	YES	Totalizer	
fc	VAT C net sales, invoices	YES	Totalizer	
fd	VAT D net sales, invoices	YES	Totalizer	
fe	VAT E net sales, invoices	YES	Totalizer	
ff	VAT F net sales, invoices	YES	Totalizer	
fg	VAT G net sales, invoices	YES	Totalizer	
wa	Gross total value	YES	Totalizer	
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:

1. 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:

1. 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	If to=1 → document type which is currently printed. If to=0 → last printed document type	-	Num.	0 – outside transaction (i.e. after RAM reset) 16 – receipt 17 – receipt in block mode 33 – invoice 48 – container 65 – invoice verification
va	VAT A rate totalizer state	-	Amount	
vb	VAT B rate totalizer state	-	Amount	
vc	VAT C rate totalizer state	-	Amount	
vd	VAT D rate totalizer state	-	Amount	
ve	VAT E rate totalizer state	-	Amount	
vf	VAT F rate totalizer state	-	Amount	
vg	VAT G rate totalizer state	-	Amount	
pp	Container value (positive)	-	Amount	
pm	Container value (negative)	-	Amount	
re	Change	-	Amount	
fp	Payments in payment forms	-	Amount	

Remarks:

1. 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.	Correct values of percentage are 0..99,99. It always sent all 7 VAT rates. All values contain comma. 101,00 – inactive VAT rate 100,00 – exempted VAT rate
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:

1. Availability in read only mode: YES

Response example:

```
[STX]sfsk[TAB]fsT[TAB]cl1[TAB]rd14[TAB]vt5[TAB]va22,00[TAB]vb7,00[TAB]vc0,00[TAB]vd3,00[TAB]ve101,00[TAB]vf101,00[TAB]vg100,00[TAB]rw2010-02-24;08:20[TAB]nuABC12345678[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	-	Totalizer	
fb	Invoice totalizer in B rate	-	Totalizer	
fc	Invoice totalizer in C rate	-	Totalizer	
fd	Invoice totalizer in D rate	-	Totalizer	
fe	Invoice totalizer in E rate	-	Totalizer	
ff	Invoice totalizer in F rate	-	Totalizer	
fg	Invoice totalizer in G rate	-	Totalizer	
fn	Invoice counter	-	Num.	
pa	Receipt totalizer in A rate	-	Totalizer	
pb	Receipt totalizer in B rate	-	Totalizer	
pc	Receipt totalizer in C rate	-	Totalizer	
pd	Receipt totalizer in D rate	-	Totalizer	
pe	Receipt totalizer in E rate	-	Totalizer	
pf	Receipt totalizer in F rate	-	Totalizer	
pg	Receipt totalizer in G rate	-	Totalizer	
pn	Receipt counter	-	Num.	
ct	Canceled receipts totalizer	-	Totalizer	
cn	Canceled receipt counter	-	Num.	
cc	Number of changes in goods data base	-	Num.	
va	VAT A rate value	-	Num.	Correct values of percentage are 0..99,99. It always sent all 7 VAT rates. All values contain comma. 101,00 – inactive VAT rate 100,00 – exempted VAT rate
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:

1. Availability in read only mode: YES

Example:

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

Response example:

[STX]stot[tab]no1432[TAB]fa122[TAB]fb[2341TAB]fc345[TAB]fd0[TAB]fe0[TAB]ff0[TAB]fg0[TAB]fn9[TAB]pa233[TAB]pb112[TAB]pc4300[TAB]pd0[TAB]pe0[TAB]pf0[TAB]pg0[TAB]pn28[TAB]ct0[TAB]cn0[TAB]cc5[TAB]va22,00[TAB]vb7,00[TAB]vc3,00[TAB]vd0[TAB]ve0[TAB]vf101,00[TAB]vg100,00[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:

1. Availability in read only mode: YES

Example:

```
[STX]scnt[TAB]#CRC16[ETX]
```

[sprn] Mechanism status**Command Id:**

!sprn, sprn

Input parameters:

none

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:

1. 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:

1. 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.	For Thermal HS FV EJ 1.01 it send: POSNET Thermal HS FV EJ For Thermal FV EJ 1.01 it send: POSNET Thermal FV EJ For Thermal FV 3.02 it send: POSNET Thermal FV For Thermal HS FV 1.02 it send: POSNET Thermal
vr	Software version	-	alphanum.	For Thermal HS FV EJ 1.01 it send: 6.01 For Thermal FV EJ 1.01 it send: 5.01 Dor Thermal FV 3.02 it send: 3.02 For Thermal HS FV 1.02 it send: 4.02

Remarks:

1. Availability in read only mode: YES

Example:

```
[STX]sid[TAB]#CRC16[ETX]
```

Response example:

```
[STX]sid[TAB]nmPOSNET Thermal FV EJ[TAB]vr5.01[TAB]#CRC16[ETX]
```

```
[STX]sid[TAB]nmPOSNET Thermal HS FV EJ[TAB]vr6.01[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:

1. Availability in read only mode: YES
2. For ty = 4, field 'no' contains number of RAM reset after that sales were continued.

Example:

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

Response example:

[STX] fmrectypeget [TAB] ty6 [TAB] #CRC16 [ETX]

[fmrcfindbydate] Fiscal memory record reading according to time and date**Command Id:**

fmrcfindbydate

Input parameters:

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:

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

Remarks:

1. Availability in read only mode: YES

Example:

```
[STX] fmrcfindbydate [TAB] da2007-04-04,11:15 [TAB] #CRC16 [ETX]
```

Response example:

```
[STX] fmrcfindbydate [TAB] no9 [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 <i>no</i> 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		Totalizer	
fb	Invoice totalizer in B rate		Totalizer	
fc	Invoice totalizer in C rate		Totalizer	
fd	Invoice totalizer in D rate		Totalizer	
fe	Invoice totalizer in E rate		Totalizer	
ff	Invoice totalizer in F rate		Totalizer	
fg	Invoice totalizer in G rate		Totalizer	
fn	Number of VAT invoices		Num.	
pa	Receipt totalizer in A rate		Totalizer	Last two digits contain a decimal part of the number.
pb	Receipt totalizer in B rate		Totalizer	
pc	Receipt totalizer in C rate		Totalizer	
pd	Receipt totalizer in D rate		Totalizer	
pe	Receipt totalizer in E rate		Totalizer	
pf	Receipt totalizer in F rate		Totalizer	
pg	Receipt totalizer in G rate		Totalizer	
pn	Number of printed receipts from the last daily report		Num.	
ct	Number of canceled receipts from the last daily report		Totalizer	Last two digits contain a decimal part of the number.
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:

1. Availability in read only mode: YES

Example:

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

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]
```

[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 <i>no</i> 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:

1. Availability in read only mode: YES

Example:

```
[STX] fmrecvat [TAB] no4 [TAB] #CRC16 [ETX]
```

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]
```

[fmrecclr] Reading RAM reset record with requested number**Command Id:**

fmrecclr

Input parameters:

Name	Description	Required	Type	Remarks
no	Number of sales record after RAM reset counted from 1	NO	Num.	If <i>no</i> 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:

1. Availability in read only mode: YES
2. RAM reset reason::
 - 'Z' if r1 i r2 are equal to zero.
 - 'W' if r1 or r2 is not equal to zero.
 - 'P' if r1 is not equal to 0xFFFF and bit 11 in r1 is set.

Example:

```
[STX] fmrecclr[TAB]no4[TAB]#CRC16[ETX]
```

Response example:

```
[STX] fmrecclr[TAB]da2007-12-05;14:36[TAB]no1[TAB]r11028[TAB]r20[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 <i>no</i> 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:

1. Availability in read only mode: YES

Example:

```
[STX] fmrecclrstart [TAB] no4 [TAB] #CRC16 [ETX]
```

Response example:

```
[STX] fmrecclrstart [TAB] da2007-12-05;14:40 [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:

1. Availability in read only mode: YES

Example:

```
[STX] fmrecfisc[TAB]no1[TAB]#CRC16[ETX]
```

Response example:

```
[STX] fmrecfisc[TAB]da2007-11-29;11:13[TAB]ni999-888-77-66[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:

1. Availability in read only mode: YES

Example:

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

Response example:

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

[fmreccurrency] Currency change record reading**Command Id:**

fmreccurrency

Input parameters:

Name	Description	Required	Type	Remarks
no	Number of record of changing the currency to EUR	NIE	Num.	If <i>no</i> 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:

1. Availability in read only mode: YES

Example:

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

Response example:

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


SETTLEMENTS PERFORMED BY FISCAL PRINTER

Fiscal printer performs different settlements in course of:

- transaction realization (printing fiscal receipt),
- printing daily report,
- printing periodical report (settlement).

VAT tax rate calculation can be performed using particular methods: on the basis on NET or GROSS amount Z due to the necessity of rounding numerical partial results (and totalizers mode!) in each case a slightly different final result will be obtained. Therefore it was assumed, that numerical settlements realization method (resulting from arrangements with the Ministry of Finance) is base on assumption that GROSS amount are of biggest importance in retail sales system.

Thus two facts:

while performing transaction the printer received GROSS amounts for particular receipt items. In printer's TOTALIZERS (counters) GROSS sales values in particular tax groups (A, B, C, D, E, F, G) are accumulated.

The point of departure for all settlements are current tax rates values. Those rates are defines by printer processor, on the basis of fiscal memory search, performed after power switch on. The last record of VAT rate change is found, current VAT rates values are read and inserted in RATE[A..G] table. VAT rate change results in recording new values in fiscal memory and inserting them in the table.

Percent discount

Percent discount is calculated in fiscal printer using two methods depending on device configuration:

Method 1:

$value' = ((1 - (R/100)) * value)$

Discount = value - value' -discount amount

Method 2:

Discount = (value * R)/100 -discount amount

Value' = value - discount

value – value before discount

value' – value after discount

R – discount percent value

Settlements realized in course of transaction

during transaction realization fiscal printer receives information about following receipt items (sold items) from application (from user). From the point of view of tax calculation and registration, referring to each item the following information as relevant:

- item name,
- GROSS individual price,
- quantity,
- VAT rate code,
- percent or amount discount/ surcharge,
- GROSS items value.

At the beginning of transaction realization the printer resets sales sum in tax groups for a receipt, inserted to GROSS [A..G] board, i.e.:

```
GROSS[A] := 0;
GROSS[B] := 0;
GROSS[C] := 0;
GROSS[D] := 0;
GROSS[E] := 0;
GROSS[F] := 0;
GROSS[G] := 0.
```

Receivable value for a client is also reset:

```
P_TOTAL := 0;
```

(P_TOTAL marking has been accepted in order to differentiate this value from TOTAL amount received from the system in transaction finalization sequence.)

After receiving GROSS value and VAT rate code from each item of the receipt, where VAT = A, B, C, D, E, F or G, the printer calculated:

```
GROSS[VAT] := GROSS[VAT] + GROSS (no discount/surcharge)
or
GROSS[VAT] := GROSS[VAT] + GROSS - DISCOUNT (amount discount)
or
GROSS[VAT] := GROSS[VAT] + GROSS after discount (value calculated according to
                                                    algorithm in the introduction)
                                                    (discount %)
or
GROSS[VAT] := GROSS[VAT] + GROSS + SURCHARGE (amount surcharge)
or
GROSS[VAT] := GROSS[VAT] + GROSS*(1 + SURCHARGE/100) (surch. %)
and:
P_TOTAL := P_TOTAL + GROSS (no discount/surcharge)
or
P_TOTAL := P_TOTAL + GROSS - DISCOUNT (amount discount)
or
P_TOTAL := P_TOTAL + GROSS (after discount (value calculated
                              according to algorithm placed in the
                              introduction )(percent discount)
or
P_TOTAL := P_TOTAL + GROSS + SURCHARGE (amount surcharge)
or
P_TOTAL := P_TOTAL + GROSS*(1 + SURCHARGE/100) (percent surcharge)
```

where:

DISCOUNT, SURCHARGE : placing DISCOUNT field (percent or amount by the application in receipt line, resulting in increasing or decreasing receivables amount for client.

All above mentioned calculations are conducted with 10-digit precision. Occurring calculation overflow results in submitting error (in this case it will be submitted as error code 19 – PRICE value error).

Momentary value P_TOTAL in case of transaction realization in "On-Line" mode is also sent to client's and operator's display (together with name of goods).

REMARKS:

VAR tax calculation in groups A..F is performed according to the rule:

Gross sales amounts total in groups A..G and calculating amounts of due tax in groups on the basis of sums calculated as above.

After finalizing transaction by the system (receiving correct receipt finishing sequence) the following values are received:

GROSS[A]...GROSS[G], P_TOTAL.

P_TOTAL result is compared with TOTAL value received from system in receipt finishing sequence. In order to correctly finish transaction, both amounts must be identical.

If in receipt finishing sequence byte value and non-zero Px parameters were sent (Px – discount/surcharge kind) correction of GROSS[A]..GROSS[G] sums is performed according to formulas:

GROSS[VAT] := according to algorithm described in the introduction {discount %}

or

GROSS[VAT] := GROSS[VAT] - DISCOUNT {amount discount}

or

GROSS[VAT] := GROSS[VAT] * (1 + DISCOUNT/100) {surcharge %}

or

GROSS[VAT] := GROSS[VAT] + DISCOUNT {amount discount}

Where:

DISCOUNT : discount or surcharge value (percent or amount) sent in receipt ending sequence in DISCOUNT field.

Example:

In case of percent surcharge:

GROSS[A] := GROSS[A] * (1 + DISCOUNT / 100),
 GROSS[B] := GROSS[B] * (1 + DISCOUNT / 100),
 GROSS[C] := GROSS[C] * (1 + DISCOUNT / 100),
 GROSS[D] := GROSS[D] * (1 + DISCOUNT / 100),
 GROSS[E] := GROSS[E] * (1 + DISCOUNT / 100),
 GROSS[F] := GROSS[F] * (1 + DISCOUNT / 100),
 GROSS[G] := GROSS[G] * (1 + DISCOUNT / 100).

The results are rounded to PLN 0,01. Next, auxiliary values are calculated:

NET[A] := GROSS[A] / (1 + RATE[A] / 100),
 NET[B] := GROSS[B] / (1 + RATE[B] / 100),
 NET[C] := GROSS[C] / (1 + RATE[C] / 100),
 NET[D] := GROSS[D] / (1 + RATE[D] / 100),
 NET[E] := GROSS[E] / (1 + RATE[E] / 100),
 NET[F] := GROSS[F] / (1 + RATE[F] / 100),
 NET[G] := GROSS[G] / (1 + RATE[G] / 100).

(those values are rounded to the second decimal number).

Finally, VAT tax rates are calculated in the following tax groups:

```
VAT[A]      := GROSS[A] - NET[A],
VAT[B]      := GROSS[B] - NET[B],
VAT[C]      := GROSS[C] - NET[C],
VAT[D]      := GROSS[D] - NET[D],
VAT[E]      := GROSS[E] - NET[E],
VAT[F]      := GROSS[F] - NET[F],
VAT[G]      := GROSS[G] - NET[G].
```

On the receipt non-zero values are printed GROSS[A]...GROSS[G] and VAT[A]...VAT[G]. In case discount/surcharge does not occur, final amount P_TOTAL (equal TOTAL) is written with double width font as an amount to be paid by a client. However, if discount/surcharge occurs, this amount is printed in line with single width (under 'SUBTOTAL:'). In the next line there is discount/surcharge value, however, receivables total for the client is calculated once again:

```
P_TOTAL := GROSS[A] + ..... + GROSS[G]
```

(since amounts on the right side of the equation were calculated before including discount/surcharge value).

The sum is next printed in double width line (under 'TOTAL zł'), as the final receivables amount for a client. If receipt was finalized using sequence including deposit, final amount to be paid by the client is calculated according to formula:

```
P_TOTAL := GROSS[A] + ... + GROSS[G] + CHARGED_DEPOSIT - RETURNED_DEPOSIT
```

If application sent client's payment value in transaction finalization sequence (PAYMENT), then:

```
CHANGE := PAYMENT - P_TOTAL;
```

If the result is negative, two additional lines including payment and change value are printed on the receipt. The last stage of transaction realization is update of printer's totalizers that include the following locations :

- GROSS sales amounts in tax groups:

```
TOT[A], TOT[B], TOT[C], TOT[D], TOT[E], TOT[F], TOT[G] and
```

- fiscal receipt counter PAR_NUM.

Fiscal parameter counter has the range 0.. 9999 and is increased before printing its content in receipt footer and reset after daily report (the counter is reset also after fiscalization and RAM reset).

Sales amounts are updated according to GROSS amounts calculated for a receipt in following tax groups:

```
TOT[A] := TOT[A] + GROSS[A],
TOT[B] := TOT[B] + GROSS[B],
TOT[C] := TOT[C] + GROSS[C],
TOT[D] := TOT[D] + GROSS[D],
TOT[E] := TOT[E] + GROSS[E],
TOT[F] := TOT[F] + GROSS[F],
```

$TOT[G] := TOT[G] + GROSS[G] .$

Receipt counter range on daily report is: 9999, daily sales total scopes amount are as following:

Thermal HS FV EJ 1.01 499 999 999,99

Thermal FV EJ 1.01 4 999 999,99

If as a result of realizing receipt finalizing sequence error no. 2010 (totalizers overflow) occurred, i.e. daily turnover in at least one tax group exceeds the above mentioned range – daily report should be made and transaction realization repeated.

Calculations realized during daily report printing

Daily report realization is connected with the following operations:

- daily GROSS sales in tax groups (values $TOT[A]...TOT[G]$ is copied from totalizers to fiscal memory (PROM ! constant memory),
- after this record, totalizers locations are reset,
- a particular report is printed, it includes NET amounts of sales in tax groups, due tax amount for particular tax groups, total amount of due tax and total turnover.

Data calculation technique for daily report is of big importance since it constitutes the basis for VAT tax settlement – unlike data regarding due tax included in receipts that have only informative character.

Regardless of accepted VAT calculation method for receipts, due to numerical approximation, the tax calculated on the basis of daily sales in tax groups will be slightly different from the tax as a total of VAT amounts printed in receipts in a particular period of time.

The approved tax calculation method for daily report has been agreed with the Ministry of Finance and reads as follows.

1. NET sales rates for particular tax groups are calculated on the basis of GROSS sales amounts accumulated in TOTALIZERS of the printer, increased with each transaction ($TOT[A]...TOT[G]$) and the table of current VAT rates ($RATE[A]..RATE[G]$) :

$R_NET[A] := TOT[A] / (1 + RATE[A] / 100) ,$

.....

$R_NET[G] := TOT[G] / (1 + RATE[G] / 100) .$

(descriptions $R_NET[A]...R_NET[G]$ were introduced in order to differentiate from analogical amounts calculated for receipt). The results of the above mentioned calculations are rounded to PLN 0,01.

2. On the report $R_NET[A]..R_NET[G]$ amounts are always printed for "active" VAT rates (even if particular amounts are zero!).

They are titled:

SPRZED. OPODATK. VAT 'x',

where 'x' = 'A'..'G' – identifies tax group.

Moreover, sales in tax exempted group is printed, it is accumulated in totalizer location $TOT[X]$ and described as:

SPRZED. ZWOLN. VAT 'x'

where 'x' – letter marking if exempted rate.

3. Due VAT amounts are calculated for particular groups A..G, according to formulas:

$$R_VAT[A] := TOT[A] - R_NET[A],$$

.....

$$R_VAT[G] := TOT[G] - R_NET[G].$$

(descriptions $R_VAT[A]...R_VAT[G]$ were introduced in order to differentiate from analogical amounts calculated for receipt – those amounts do not require approximation).

4. In daily report both zero and non-zero amounts are printed $R_VAT[A]...R_VAT[G]$ (it does not refer to non-active, exempted rates and rates equal 0,00%).

5. Total amount of due tax and total sales is calculated:

$$TOT_VAT := R_VAT[A] + \dots + R_VAT[G],$$

$$R_TOTAL := TOT[A] + \dots + TOT[G],$$

(those calculations are conducted with 14-digit precision, thus arithmetical overflow can not occur, even if location values of totalizers $TOT[A]..TOT[G]$ are close to maximum).

6. Both amounts are printed in daily report and marked as:

'VAT TOTAL AMOUNT' and TOTAL RECEIVABLE'.

On daily report also number and amount of annulled receipts is printed as well as number of fiscal receipts printed since the last daily report. Printer fiscal receipts counter (PAR_NUM totalizer locations) calculates receipts and it is reset in the moment of printing daily report.

Remark !

If RAM reset performed, receipt counter was reset.

Current receipt number is printed in report titled:

'RECEIPTS NUMBER'.

Remark!

If before sales initialization on a particular day changes in printer goods data base were performed, on the daily report printer information about those changes will occur.

Calculations realized in course of printing periodical report

The basic part of periodical report consists of sequential description of particular records in fiscal memory. Those records refer to different situations – they can be daily reports, VAT rate changes, RAM resetting and others. Daily reports have the essential meaning from the point of view of calculations and turnover registration. Calculation technique for particular daily reports printed within periodical report is identical as the one described in the previous point. It is obvious, since performing daily report consists i.a. in constant recording printer totalizers status to fiscal memory.

In course of periodical report those strings are read in a row and identical calculations as for daily report are performed, however, input data (in above $TOT[A]...TOT[G]$) do not come from printed totalizers (as in daily report), but from fiscal memory. The second relevant difference refers to VAT rates. Before report printing initialization, fiscal memory is searched in order to set initial VAT rates (the last record regarding VAT rates before report initialization date is found). Set rates are printed as the first, under periodical report header. Data calculations for the first daily report, included in periodical report provide initial rates values. If in course of report printing a string regarding rates change is found, new VAT rates values will be printed and further calculations for daily reports will be based on them.

In course of printing periodical report, gross and VAT amount sums are calculated on a current basis for the whole basis ie. after calculating and printing data for each of read daily reports, the printer calculates:

$$RO_GROSS[A] := RO_GROSS[A] + RD_GROSS[A],$$

.....

$$RO_GROSS[G] := RO_GROSS[G] + RD_GROSS[G],$$

and:

```

RO_VAT[A] := RO_VAT[A] + RD_VAT[A],
.....
RO_VAT[G] := RO_VAT[G] + RD_VAT[G],
then:
RO_NET[A] := RO_GROSS[A] - RO_VAT[A],
.....
RO_NET[G] := RO_GROSS[G] - RO_VAT[G],

```

where:

RD_GROSS[A]..RD_GROSS[G], RD_VAT[A]..RD_VAT[G]

are values calculated for a particular daily report recorded in fiscal memory.

Finally, total tax and receivables values are calculated:

```

RO_TOT_VAT := RO_VAT[A] + RO_VAT[B] + ..... + RO_VAT[G],
RO_TOTAL := RO_GROSS[A] + RO_GROSS[B] + ..... + RO_GROSS[G],

```

All above mentioned calculations are performed with 14-digit precision, which results in maximum possible turnover in the period covered with periodical report: PLN 999 999 999 999,99, thus, arithmetical overflow is not expected.

Received amounts:

RO_NET[A]..RO_NET[G], RO_VAT[A]..RO_VAT[G], RD_TOT_VAT, RD_TOTAL

are totals of particular items from particular reports. It should be noticed, that it must be due to indicated before possible VAT rate changes.

Due to this fact (even if VAT rates in course of printing the whole report are constant) calculation control of due tax amounts basing on totals RO_NET[A]..RO_NET[G] can indicate slight calculation error (partial amounts rounding RO_NET[A]..RO_NET[G]!).

Amounts:

RO_NET[A]..RO_NET[F], RO_VAT[A]..RO_VAT[G], RD_TOT_VAT, RD_TOTAL
are printed at the end of report, in summary titled:

'TOTAL PERIODUCAL REPORT'.

Moreover, sales amounts total is printed in tax exempted groups, accumulated in location of totalizers programmed with exempted rate. Eg.: if F and G exempted rates were programmed, sales total amount in this rates is titled:

'VAT F, G EX. RATE'

If in the reported period VAR rates were changed, in total periodical report, at VAT AMOUNT 'x' items (where 'x' = A...G) of changed rate '+' occurs.

REMARK:

The above mentioned information refers to all periodical reports (from ... to, monthly and settlement report).

Cent distribution

In case total of particular totalizers resulting from calculations is not the same as receipt value after granting amount discount/surcharge, or discount/surcharge value is not possible to be divided into particular totalizers using arithmetic, the following algorithm of excessive cent is applied:

Percent discount:

Algorithm described in the introduction.

Percent surcharge:

$$\text{Narzutx}' = (\text{Xvatx} * N) / 100$$

$$\text{Xvatx}' = \text{Xvatx} + \text{Narzutx}'$$

Amount discount (is converted into percent discount):

r = discount amount

$R = r / \text{Xall}$ - amount discount converted into percent discount

Xvatx' = calculated according to algorithm described in the introduction.

Amount surcharge (is converted into percent surcharge):

n = surcharge amount

$N = n / \text{Xall}$ - amount surcharge converted into percent surcharge

$$\text{Xvatx}' = (\text{Xvatx} + \text{Xvatx} * n / \text{Xall}) = (\text{Xvatx} + (\text{Xvatx} * N / 100))$$

$N = | \text{Xall} + n | - | \text{XvatA}' + \text{XvatB}' + \dots + \text{XvatG}' |$ -excessive cent number
or

$N = | \text{Xall} - r | - | \text{XvatA}' + \text{XvatB}' + \dots + \text{XvtG}' |$ -excessive cent number

Where:

Xall : totalizers total before granting a discount/surcharge

Xvatx : totalizer in a particular VAT rate before discount/surcharge

Xvatx' : totalizer in a particular VAT rate after discount/surcharge

XvatA'....XvatG' : status of particular totalizers after granting discount/surcharge

Rabatx' : discount amount

n : surcharge

r : discount

N : number of excessive cent

FOR $N > 0$

(discount/surcharge resulting from calculations is smaller then the actual one)

The difference between actual discount/surcharge value and discount total in particular totalizers, it is divided beginning from the biggest totalizer, or in case totalizers are equal – in alphabetical order beginning from A.

Providing that totalizers were adequately sorted, seven variables with the following priorities: Tot 1, Tot 2, ..., Tot 7 are received.

1) Granting surcharge- in this case excessive cent are added to totalizers:

Tot 1 + cent

Tot 2 + cent

.....

Tot 7 + cent

The loop is repeated until $N=0$ (all cent will be separated)

In case:

$\text{Tot}[i] \geq 2 * \text{Tot}[i+1]$ to $\text{Tot}[i] + 2 \text{ cent}$

2) Granting discount – in this case excessive cent are subtracted from totalizers

Tot 1 - cent
Tot 2 - cent
.....
Tot 7 - cent

The loop is repeated until $N=0$ (all cent will be separated)

In case:

$Tot [i] \geq 2 * Tot[i+1]$ to $Tot [i] - 2 \text{ cent}$

FOR $N < 0$

(discount/surcharge resulting from calculations is bigger than actual)

The difference between actual discount/surcharge and result received from received calculations is corrected in totalizers, beginning from the one with the smallest value. In case totalizers are equal, totalizers correction order is performed in reverse alphabetical order (beginning from G).

Providing that totalizers were adequately sorted, seven variables with the following priorities: Tot 1, Tot 2,, Tot 7 are received.

1) Granting surcharge -in this case cent are subtracted from totalizers:

Tot 1 - cent
Tot 2 - cent
.....
Tot 7 - cent

The process is repeated until cent deficiency is eliminated.

2) Granting discount -in this case cent are added to totalizers:

Tot 1 + cent
Tot 2 + cent
.....
Tot 7 + cent

The process is repeated until cent deficiency is eliminated.

REMARKS:

Totalizers correction can not result in decreasing totalizer value in case surcharge was granted, or increasing totalizer value when discount was granted.

Errors description

Frame's errors

LP	MNEMONIC	DESCRIPTION
1	PROTO_ERR_CMD_UNKNOWN	Unknown command.
2	PROTO_ERR_CMD_MANDATORY_FIELDS	Required field missing.
3	PROTO_ERR_DATA_CONVERSION	Conversion error (i.e. the value sent includes comma instead of cents: 12,34 instead of 1234) or exceeded data limit.
4	PROTO_ERR_TOKEN_INVALID	Token error
5	PROTO_ERR_CRC_INVALID	Checksum error
6	PROTO_ERR_FLD_INVALID	Empty field (two consecutive tab characters)
7	PROTO_ERR_CMD_LENGTH	Invalid length of command id
8	PROTO_ERR_TOKEN_LENGTH	Invalid length of token
9	PROTO_ERR_CRC_LENGTH	Invalid length of checksum
10	PROTO_ERR_DATA_LENGTH	Invalid length of data field
11	PROTO_ERR_INPUT_BUFFER_OVERRUN	Data receive buffer is full
12	PROTO_ERR_CMD_IMMEDIATE_FORBIDDEN	Immediate command execution is not allowed
13	PROTO_ERR_TOKEN_NOT_FOUND	No command with specified token
14	PROTO_ERR_INPUT_QUEUE_FULL	Command's queue is full
15	PROTO_ERR_SYNTAX	Frame syntax error

Command's errors

LP	MNEMONIC	DESCRIPTION
30	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

LP	MNEMONIC	DESCRIPTION
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	Maximum statistics overflow
502	ERR_CASH_IN_MAX_OVF	Cash 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
1002	ERR_FM_WRITE	Record error
1003	ERR_FM_UNKN	Error not included in bios specification
1004	ERR_FM_CHKSUM_CNT	Incorrect control sums

LP	MNEMONIC	DESCRIPTION
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.
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.

LP	MNEMONIC	DESCRIPTION
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)
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 positive 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

LP	MNEMONIC	DESCRIPTION
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
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
2056	ERR_EMPTY_TXT	Empty header (i.e. no characters to print or spaces)
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
2533	ERR_FV_EMPTY_NUMBER	No invoice number defined.
2600	ERR_DISCNT_TYPE	Erroneous discount/surcharge type
2601	ERR_TR_DISCNT_VALUE	Discount/ surcharge value outside the scope
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.

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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.
2901	ERR_EC_EDM_NOT_READY	No electronic journal card or it is busy.
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.
3056	ERR_CURRENCY_CHNG_CNT	Number of currency changes exceeded.