

ELTRADE COMMUNICATION PROTOCOL

(ver. 1.3.2)

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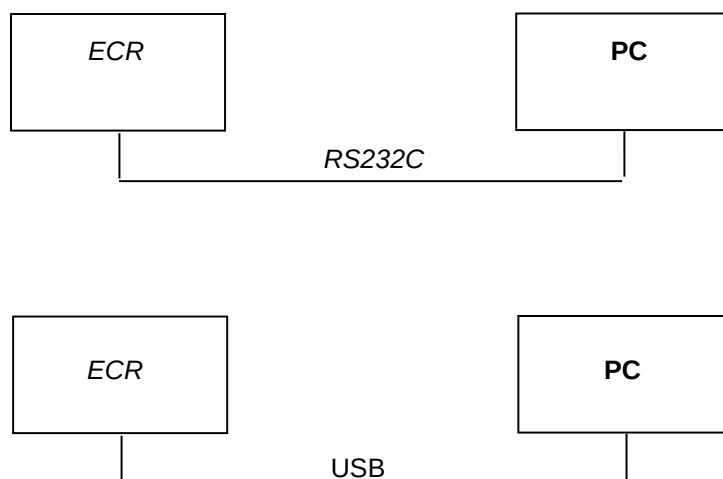
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Introduction

The purpose of this document is to explain data exchange formats and the communication protocol of Eltrade fiscal devices, e.g fiscal printers (FP).

The fiscal printer can work by being controlled by application software. The link between the fiscal printers' resources and the application software is performed by means of a driver. The communication is carried out via RS232C interface or USB.



Communication settings

Interface – RS232C

Speed – 115200 bps

Parity – none

Data bits - 8

Stop bits – 1

STATUS BITS OF THE FISCAL PRINTER

The current status of the device is encoded in a 6-bytes long field, which is sent within each message of the fiscal printer. Description of each byte in this field:

Byte 0: General purpose

- 0.7 Reserved – always 1
- 0.6 Paper cover is open
- 0.5 General error – “OR” of all errors marked with „#”
- 0.4 # Failure in printing mechanism
- 0.3 Customer display is not connected
- 0.2 The clock needs setting
- 0.1 # Code of incoming command is invalid
- 0.0 # Incoming data has syntax error

Byte 1: General purpose

- 1.7 Reserved – always 1
- 1.6 The operator password is incorrect
- 1.5 Error with paper cutter
- 1.4 Not used
- 1.3 Not used
- 1.2 Not used
- 1.1 # If command cannot be performed in the current fiscal mode
- 1.0 # If during command some of the fields for the sums overflow. Status 1.1 will also be set and the command will not cause changes to the data in the printer.

Byte 2: General purpose

- 2.7 Reserved – always 1
- 2.6 Not used
- 2.5 A non-fiscal receipt is opened
- 2.4 Coming end of KLEN (less than 10MB free)
- 2.3 A fiscal receipt is opened
- 2.2 End of KLEN(less than 1MB free)
- 2.1 Not enough paper remaining
- 2.0 # No paper - valid for both paper rolls. If the flag is raised during a print-related command it will be rejected and the status of the printer will remain unchanged.

Byte 3: The status of the configuration switches

- 3.7 Reserved – always 1
- 3.6 SW7 state
- 3.5 SW6 state
- 3.4 SW5 state
- 3.3 SW4 state
- 3.2 SW3 state.
- 3.1 SW2 state
- 3.0 SW1 state

Byte 4: For fiscal memory

- 4.7 Reserved – always 1

- 4.6 Not used
- 4.5 OR of all mistakes marked by „*" from bytes 4 and 5.
- 4.4 * Fiscal memory is full.
- 4.3 If there is space for not more than 50 entries in the FM.
- 4.2 FM number has been set
- 4.1 EIK is entered.
- 4.0 Not used

Byte 5: For fiscal memory

- 5.7 Reserved – always 1
- 5.6 Not used
- 5.5 Error in fiscal memory.
- 5.4 Tax rates have been entered at least once
- 5.3 The device is in a fiscal mode
- 5.2 * The last entry in the fiscal memory was not successful
- 5.1 Not used
- 5.0 Not used

ISSUING FISCAL AND NON-FISCAL RECEIPTS

A) NON-FISCAL RECEIPTS

The receipt is first opened, a text is then printed and the receipt is closed. The commands used: 38(26H) once, then a number of 42(2AH) commands, and lastly 39(27H) once.

B) FISCAL RECEIPTS

A fiscal receipt is first opened, the sales are registered, payment is performed and the receipt is finally closed. The following commands are used: 48(30H), 49(31H), 51(33H), 52(34H), 53(35H), 54(36H), 56(38H) and 58(3AH). At the end of the day a daily financial report and clear are performed in order to enter and save the accumulated information in the fiscal memory. The function is started with the command 69(45H).

LOW LEVEL PROTOCOL

A) PROTOCOL TYPE - MASTER (HOST) / SLAVE

The fiscal printer performs the commands sent by the Host and returns messages, which depend on the result. The fiscal printer cannot instigate asynchronous communications itself. Only responses to commands from the Host are sent to the Host. These messages are either wrapped or single byte control codes. The fiscal printer maintains the communication via the RS232 serial connection at baud rates of 115200 b/s, 8N1. Supported is and a USB connection which is activated automatically after connecting the printer to the PC through USB cable.

B) SEQUENCE OF THE MESSAGES

Host sends a wrapped message, containing a command for the printer.
FP executes the requested operation and response with a wrapped message.
Host has to wait for a response from the printer before to send another message.
The protocol uses non-wrapped messages with a length one byte for processing of the necessary pauses and error conditions.

C) NON-WRAPPED MESSAGES - TIME-OUT

When the transmitting of messages from the Host is normal, Slave answers not later than 60 ms either with a wrapped message or with a 1 byte code. Host must have 500 ms of time-out for receiving a message from Slave. If there is no message during this period of time the Host will transmit the message again with the same

sequence number and the same command. After several unsuccessful attempts Host must indicate that there is

either no connection to the fiscal printer or there is a hardware fault.

Non-wrapped messages consist of one byte and they are:

A) NAK 15H

This code is sent by Slave when an error in the control sum or the form of the received message is found.

When Host receives a NAK it must again send a message with the same sequence number.

B) SYN 16H

This code is sent by Slave upon receiving a command which needs longer processing time. SYN is sent every 60 ms until the wrapped message is not ready for transmitting.

D) WRAPPED MESSAGES

a) Host to printer (Send)

<01><LEN><SEQ><CMD><DATA><05><BCC><03>

b) Printer to Host (Receive)

<01><LEN><SEQ><CMD><DATA><04><STATUS><05><BCC><03>

Where:

<01> Preamble.

1 byte long. Value: 01H.

<LEN> Number of bytes from <01> preamble (excluded) to <05> (included) plus the fixed offset of 20H.

Length: 1 byte. Value: 20H - 7FH.

<SEQ> Sequence number of the frame.

Length : 1 byte. Value: 20H – FFH.

The fiscal printer saves the same <SEQ> in the return message. If the FP gets a message with the same <SEQ> as the last message received it will not perform any operation, but will repeat the last sent message.

<CMD> The code of the command.

Length: 1 byte. Value: 20H - 7FH.

The fiscal printer saves the same <CMD> in the return message. If the printer receives a nonexisting code it returns a wrapped message with zero length in the data field and sets the respective status bit.

<DATA> Data.

Length: 0-213bytes for Host to printer, 0-218 bytes for Printer to Host. Value: 20H – FFH ; . The format and length of the field for storing data depends on the command. If the command has no data the length of this field is zero. If there is a syntax error the respective status bit is established in the data and a wrapped message is returned with zero field length.

<04> Separator (only for printer-to-Host messages) Length: 1 byte. Value: 04H.

<STATUS> The field with the current status of the fiscal device.

Length: 6 bytes. Value: 80H-FFH.

<05> Postamble

Length: 1 byte. Value: 05H.

<BCC> Control sum (0000H-FFFFH)

Length: 4 bytes. Value of each byte: 30H-3FH.

The sum includes between <01> preamble (excluded) to <05>. Each digit from the two bytes is sent after 30H is added to it. For example the sum 1AE3H is presented as 31H, 3AH, 3EH, 33H.

<03> Terminator

Length: 1 byte. Value: 03H.

MESSAGE COMPOSITION, SYNTAX, AND MEANINGS

a) The data field depends on the command.

b) The parameters sent to the printer may be separated with a comma and/or may have a fixed length.

c) The comma between the parameters shows that it is mandatory.

d) When the parameters are closed by <> they are mandatory although the brackets themselves are not

present in the message. When a given parameter is closed in [] it is not mandatory - the bracket themselves are also not present in the message. When parameters are separated by „|“ symbol, only one of them may present in the input data.

The symbols with ASCII codes under 32 (20H) have special meanings and their use is explained whenever necessary. If such a symbol has to be sent for some reason (for example in an ESCAPE-command to the display)

it must be preceded by 16 (10H) with an added offset 40H.

Example: when we write 2500, 100, Text for the data field then in that field there will be 2D 32 35 30 2C 31 30 30 2C 54 65 78 74 where each hexadecimal digit is an ASCII value.

LIST OF FISCAL COMMANDS - FUNCTIONAL ARRANGEMENT

21h (33) CLEARING THE DISPLAY

Data field: No data

Response: None

23h (35) TEXT ON THE LOWER LINE OF THE DISPLAY

Data field: <Text>

Response: None

Text A text of up to 20 symbols is sent directly to the display. Prior to this a command for positioning and clearing the lower line is sent.

26h (38) OPENING A NON-FISCAL RECEIPT.

Data field: None

Response: *Allreceipt, ErrCode*

Allreceipt The number of all issued receipts (fiscal and non-fiscal) from the last daily closure on (4 bytes).

ErrCode Error code when the command is unsuccessful /1 byte/.

The FP performs the following actions:

- Prints the header
- Print the tax registration number of the seller
- A response is received which contains Allreceipt

The command cannot be executed if:

- The fiscal memory has not been formatted
- There is an opened fiscal receipt
- There is an opened non-fiscal
- The clock hasn't been set

27h (39) CLOSING A NON-FISCAL RECEIPT.

Data field: None
Response: **Allreceipt**

Allreceipt The number of all issued receipts (fiscal and non-fiscal) from the last daily closure on (4 bytes).
The FP performs the following actions:

- Prints the footer

- The sequence number, date and hour of the document are printed
- "NON-FISCAL RECEIPT" is printed in expanded style

If the S1.1 flag is raised the command is not executed because there is no opened non-fiscal receipt.

2Ah (42) PRINTING OF A FREE NON-FISCAL TEXT

Data field: **Text**
Response: None

Text A text up to 46 symbols. The symbols after 46th are cut off. In the beginning and end of the line is printed a symbol „#“.

If S1.1 is raised there is no non-fiscal receipt opened and the text is not printed.

2Bh (43) SETTING HEADER, FOOTER AND PRINTING OPTIONS

Data field: <Item><Text>
Response: Depends on field data

HEADER consists of 6 lines of text, which are printed at the beginning of each fiscal and non-fiscal receipt. The printer will function normally only when at least two "header" lines have been programmed for printing. The EIK number is always printed on row 3, so the HEADER rows after the second are automatically shifted downwards by one.

FOOTER consists of 2 lines of text printed at the end of each receipt.

HEADER and **FOOTER** are automatically center aligned.

This command must be sent up to 8 times to set all **HEADER** and **FOOTER** lines.

Item One symbol having the following meaning:

"0" to "7" The sequence number of the set line the **header** lines being numbered from 0 to 5 and those of the **footer** - 6 and 7.

"B" Sets the height of the barcode in pixels (0,125mm). Acceptable values: form 24 (3mm) to 240 (30mm). Barcode is printed with command **84 (54H)**.

"C" Permission/rejection of the automatic cutting of the paper after each receipt. After power on the performance of the printer is defined in accordance with the setting of DIP switch **Sw8**.

"L" Permission/rejection of the printing of the graphic logo immediately before the header.

This logo is defined with the command **115 (73H)**. Data "Text" is in format <Enable>, <H>. **H** - logo height (in pixels), **Enable** - one byte with value "1"(enable) or "0"(disable).

"I" Gives us the option to read the values, set earlier with command 43. After the letter "I" only one more symbol follows which coincides with some of the above.

Text A text string up to 36 symbols:

- If <Item> is a digit from "0" to "7" - the text of the respective line.

- If <Item> = 'B' - Barcode height (in pixels)

- If <Item> = „C" - One symbol value „0" or „1", where "0" forbids and "1" permits automatic cutting of the receipt.

- If <Item> = „L" – Return **Enable,H** (**H** - logo height in pixels, **Enable** – is flag enable/disable).
/invoice/) fiscal receipt.

2Ch (44) ADVANCING PAPER

Data field: **Lines**
Response: None

Lines Advancing paper measured in lines. The programmed line count cannot be greater than 99 (1 or 2 bytes). If the parameter is not there the default setting is 1 line.

2Fh (47) DISPLAYING A TEXT ON THE UPPER LINE OF THE DISPLAY

Data field: **<Text>**
Response: None

Text A text of 20 symbols which is sent directly to the display. Prior to this a command for the positioning and clearing of the upper line. If a fiscal receipt is opened and SW1 is OFF the command is rejected..

31h (49) REGISTRATION (sale) of goods

Data field: [**<L1>**][**<Lf>****<L2>**]**<Tab>****<TaxCd>****<[Sign]Price>****[*<Qwan>]****[,Perc\;Abs]**
Or
[<L1>][<Lf>**<L2>**]**<Tab>****<Dept>****<Tab>****<[Sign]Price>****[*<Qwan>]****[,Perc\;Abs]**
Response: None

L1 Text of 30 bytes
Lf one byte with content of 0Ah.
L2 Text of 30 bytes second line
Tab one byte with content of 09h.
TaxCd one byte of letter of the tax rate ('A', 'B', 'C', ...). check **Enabled_taxes**, command 83.
Dept Department number. Integer from 1 to 250
Sign one byte with value '-'.
Price single price up to 8 digits

Qwan This is a non-mandatory parameter, which is quantity of the goods, by default 1.000 length 8 digits.

Perc This is a non-mandatory parameter, showing the value of the surcharge and discount (depending on the sign) in percentage. Value from 99.00 % to 99.00 %.

Abs This is a non-mandatory parameter showing the value of the surcharge and discount (depending on the sign) as an amount. It is not acceptable a discount with value higher than the value of the sale

Only one is accepted **Perc** or **Abs**.

The command will not be successful if:

- There isn't an opened fiscal receipt
- The fiscal memory is full
- The fiscal memory is damaged
- The clock needs setting
- The electronic journal (KLEN) is full or not functionable.

33h (51) SUBTOTAL

Data field: **<Print><Display>[,Perc];Abs]**

Response: **SubTotal,TaxA,TaxB,TaxC,TaxD,TaxE,TaxF,TaxG,TaxH**

Print One byte, which if „1“ the sum of the subtotal will be printed out.

Display One byte which if „1“ the sum of the subtotal will appear on the display.

Perc A non-mandatory parameter which shows the value of the discount or surcharge in percent over the sum accumulated so far.

Abs A non-mandatory parameter which shows the value of the discount or surcharge as an amount (up to 8 significant digits). It is not aloud a surcharge bigger than the sale.

Permitted only one of the arguments Perc or Abs.

SubTotal The sum accumulated for the current fiscal receipt (10 bytes).

TaxA The sum over tax group A/10 bytes/

TaxB The sum over tax group B/10 bytes/

TaxC The sum over tax group C/10 bytes/

TaxD The sum over tax group D/10 bytes/

TaxE The sum over tax group E/10 bytes/

TaxF The sum over tax group F/10 bytes/

TaxG The sum over tax group G/10 bytes/

TaxH The sum over tax group H/10 bytes/

34h (52) REGISTRATION AND DISPLAY

Data field: **[Line]]<Tab><TaxCd><[Sign]Price>[*Qwan][,Perc];Abs]**

or

[Line]]<Tab><Dept><Tab><[Sign]Price>[*Qwan][,Perc];Abs]

Response: **None**

Line **String** 20 bytes of text.

Tab one byte with **09h**

TaxCd one byte of leter of the tax rate ('A', 'B', 'B', ...). check **Enabled_taxes**,commend **83**.

Dept Department number. Integer from 1 to 250

Sign one byte with value '-'.

Price Price length 8 digits.

Qwan This is a non-mandatory parameter, which is quantity of the goods, by default 1.000 length 8 digits.

Perc This is a non-mandatory parameter, showing the value of the surcharge and discount (depending on the sign) in percentage. Value from 99.00 % to 99.00 %.

Abs This is a non-mandatory parameter showing the value of the surcharge and discount (depending on the sign) as an amount. It is not acceptable a discount with value higher than the value of the sale

Only one of the **Perc** or **Abs** arguments is allowed.

The command will not be successful if:

- There isn't an opened fiscal receipt
- The fiscal memory is full
- The fiscal memory is damaged
- The clock needs setting

- The electronic journal (KLEN) is full or not functionable.

35h (53) CALCULATION OF A TOTAL

Data field: [**<Line1>**][**<Lf>**]**<Line2>**][**<Tab>**][**<PaidMode>**][**<Sign>**]**Amount**][**<Rate>**,**<Currency>**]
 Response: **<PaidCode>****<Amount>**

Line1 A text of 36 bytes containing the first line
Lf One byte containing 0Ah
Line2 A text of 36 bytes containing the second line
Tab One byte containing 09h
PaidMode A non-mandatory code indicating the terms of payment. It may have the following values:
"P" - Payment in cash (default)
"N" - Payment with a check
"C" - Payment with Coupons
"D" - Payment with a External Coupons
"I" - Payment with a wrappage
"J" - Internal service
"K" - Payments on "Damages"
"L" - Payments on Debit/Credit cards
"M" - Payments on Bank transfer
"Q" - Payments NZOK,
"R" - Reserve.

Depending on the code the sums are accumulated in different registers and may be recovered in the daily report.

Sign One byte with a value „+“ indicating the **Amount** (the sum which has to be tendered)
Amount The sum tendered (up to 8 meaningful symbols)
Rate The exchange rate of this payment against the device's default currency. A number between 0.000001 and 999.999999 with precision to 6 decimal places. It is allowed to pass it only if **PaidMode** has a value of "P". Note: if the currency parameter (command 83h) has a value of "2", it is permitted to pass only the symbol "L" instead of **Rate** and leave the **Currency** field blank. This signifies a payment with Leva and the rate and currency name are set automatically for that purpose.
Currency Name for the payment. If the currency parameter has a value of "2" and the **Rate** was passed as "L", this is left blank instead.

PaidCode One byte - resulting from the execution of the command:
"F" Error
"D" If the paid sum is less than the sum of the receipt. The residual sum due for payment is returned to **Amount**
"R" When the paid sum is greater than the sum of the receipt. A message ("CHANGE") will be printed out and the change will be returned to **Amount**.
Amount Up to 9 digits with a sign. Depends on **PaidCode**.

This command starts the calculation of the sums from the fiscal receipt, the printing of the sum with a special font and showing the result on the display. An additional text may also be printed. When the command has been successfully executed a further command for opening a cash drawer is activated, if that is permit with sub command „X“ on command 43. If there is no more data after the symbol <Tab> the printer will automatically pay out the whole available sum in cash.

The command will not be successful if:

- No fiscal receipt has been opened,

- The accumulated sum is negative,
- If some of the accumulated sums under taxation (tax group) is negative.

After the successful completion of the command the fiscal printer will not perform the commands 49 and 51 within the opened receipt although it can still perform command 53.

36h (54) PRINTING A FREE FISCAL TEXT

Data field: **Text**
Response: None

Text Up to 46 bytes

The text is surrounded by two „#“ symbols.

A fiscal receipt must be opened because in the opposite case the text will not be printed and the S1.1. flag is raised. If the text is longer than 46 symbols the redundant letters are cut off.

38h (56) CLOSING A FISCAL RECEIPT

Data field: **[Q]**
Response: **Allreceipt,FiscReceipt[,QRString,CS]**

Q Optional argument, the symbol "Q". If provided, the **QRString** and **CS** values are always returned if the receipt is closed successfully.

Allreceipt All issued receipts from the last daily closure up to the moment

FiscReceipt All issued fiscal receipts from the last daily closure up to the moment. The accumulated sums from the fiscal receipt are added to the daily sums in the registries of the fiscal memory.

QRString The text needed to generate the receipt's QR code.

CS SHA1 checksum of the receipt, printed at the bottom.

Note: The fields **QRString** and **CS** are automatically returned if the receipt is digital (the command 90h was used with the appropriate **Type** argument), or when that is explicitly requested with the **Q** argument. In either case the fields are only returned if the receipt was closed successfully.

The command will not be successful if:

- No fiscal receipt has been opened,
- Command **53 (35h)** has failed,
- The sum paid under command **53** is less than the total sum of the fiscal receipt.

39h (57) PRINTING OF THE INFORMATION OF THE CUSTOMMER

Data field: **[#]<Bulstat>[<TabxSeller>[<TabxReceiver>[<TabxClient>[<TabxTaxNo>[<TabxAddress>]]]]]**
Response: None

Bulstat EIK number of the customer. 9 or 10 symbols If '#' infromt the data is use as UCN tabulation (**09H**).

Tab

Seller Name of the saler up to 26 symbols.

Receiver Name of the receiver up to 26 symbols.

Client Client name up to 26 symbols.

TaxNo Tax number of the receiver from 10 to 14 symbols

Address Address of the customer up to 2 lines each of 36 symbols separate with **LF** (0AH). Only the first one parameter is a must.

3Ah (58) REGISTERING THE SALE OF A PROGRAMMED ITEM

Data field: **[D]<[Sign]PLU>[<TabxDeptxTab>][*<Qwan>][,Perc;Abs]**
Response: None

D One optional byte with value of 'D'. If present, the article name and sum is displayed.

Sign One byte with a value of '-'

PLU The individual number of the item - a whole number between 1 and 29999 (not more than 9 digits)..

Tab One byte - tabulation (ASCII code 9).

Dept Number of department. From 1 to 250..

Qwan A non-mandatory parameter setting the quantity of the items for sale with a default value of 1.000. Length cannot be longer than 8 meaningful digits (not more than 3 after the decimal point). The resulting singular price (*Qwan) is rounded up to the set number of digits after the decimal point and also cannot be greater than 8 meaningful digits.

Perc A non-mandatory parameter showing the value of surcharge or discount (depending on the symbol) in percent over the current sale. Possible values are between -99.00% to 99.00%. Up to 2 digits after the decimal point are acceptable.

Abs This is a non-mandatory parameter which sets the value of discount or surcharge (depending on the sign) over the current sale. Up to 8 significant digits. Only one of the parameters Perc and Abs allowed.

The fiscal printer performs the following operations:

- The name, price and tax group of the item is read from items list, programmed in the printer.
- Prints out the name of the item, selected quantity and singular price. The second printed line contains the final price together with the letter, designating the tax group from which the sale will be performed.
- The registries for accumulated sums and item quantities are updated.
- The price of the item is added to the accumulated sums in the registries of operational memory. In case of overflow, the respective bytes from the status field will be set.
- If there is a discount or surcharge, it is printed out on a separate line and is added in specially selected registries in the printer. The values from the whole day will be printed together with the daily financial report.
- The price of the item is shown on the upper line of display and its description - on the lower.
- The exchange operation must be with value <= of the accumulated sum for this tax group in the receipt. After the first exchange command, all other registration commands in this receipt must be of exchange type. Exchange commands didn't allow using of discount or mark up.

The command will not be successful if:

- No item has been programmed under the given number,
- No fiscal receipt has been opened,
- The maximum number of sales for one receipt (1500) has already been registered.
- The command 35h has been successfully executed
- The sum under one or more of the tax groups has turned out negative.

3Ch (60) CANCELING OF A FISCAL RECEIPT

Data field: None
Response: None

This command is accessible only over opened fiscal receipt and only before the execution of **53** (Total).

3Dh (61) SETTING THE CLOCK - DATE AND HOUR

Data field: <DD-MM-YYxspace>HH:MM[:SS]/>

Response: None

You cannot set a date which is earlier than the date of the last entry into the fiscal memory or KLEN of the device.

3Eh (62) READING CURRENT DATE AND HOUR

Data field: None

Response: <DD-MM-YY><Space><HH:MM:SS>

3Fh (63) SHOWING CURRENT DATE AND HOUR

Data field: None

Response: <DD-MM-YY><Space><HH:MM:SS>

The response is also displayed on the bottom row of the screen, if applicable.

41h (65) INFORMATION ON DAILY TAXATION

Data field: [Option]

Response: TaxA, TaxB, TaxC, TaxD, TaxE, TaxF, TaxG, TaxH

Option Determines what information to be returned:

'0' - total turnover (default).

'1' - accumulated VAT.

TaxX The amounts of each VAT group „A“, „B“, „B“, ... (A,B,C...)- 12 signed bytes.

42h (66) SETTING THE INTERVAL OF THE INVOICES/ CREDIT NOTES

Data field: [S][Start,End]

Response: [Start,End,Current]

S if this parameter is send the command is setting number of range for credit note (Storno of Invoice)

Start Start number. Integer of 10 digits.

End End number. Integer of 10 digits.

Current Current number of the invoice. Integer of 10 digits.

Start must be <= **End**.

44h (68) NUMBER OF THE FREE FIELDS IN THE FISCAL MEMORY

Data field: None

Response: **Logical, Physical**

Logical The number of logical locations for fiscal entries (4 bytes)

Physical Not used. Repeats the previous entry.

The number of free fields in the fiscal memory, reserved for saving information from the daily report with clear(Z-report).

45h (69) DAILY FINANCIAL REPORT

Data field: **[<Option>[N]**

Response: **Closure,FM_Total,TotA,TotB,TotC,TotD,TotE,TotF,TotG,TotH**

Option A non-mandatory parameter controlling the type of generated report.

„0” - The printout ends with the inscriptions “FISCAL RECEIPT” or “NON-FISCAL RECEIPT” depending on the status of the printer (fiscalized or non-fiscalized).

„2” - A daily report without closure is generated i.e., no entry into the fiscal memory is made and no closures are performed. The printout ends with the inscription “OFFICIAL RECEIPT”. The same actions may be generated directly from the printer if during power on the left button is pressed down.

N - The presence of this symbol at the end of the data cancels the option to clear the data accumulated on the operators during a report with clear.

a - The presence of this symbol at the end of the data prohibits clearing of accumulated data items in a report with clear.

Closure - Fiscal closure (Daily report) number – 4 bytes.

FM_Total - The sum of all sales for the day - 12 bytes with a sign.

TotX - The nett sums (Total –VAT) under all tax categories - A, B, C, D, E, F, G, and H - 12 bytes with a sign. A daily report with no clearing can be executed and by holding the **<FEED>** button, at turning on, until the second sound signal.

46h (70) INTERNAL DEBITING AND CREDITING (SERVE IN AND OUT)

Data field: **[<Amount>]**

Response: **ExitCode,CashSum,ServIn,ServOut**

Amount The sum which will be registered (up to 9 bytes). Depending on the sign of the digit this sum is interpreted either as credit or debit (serveIn or serveOut).

ExitCode One byte:

„P” The order has been completed. If the ordered sum is not 0 the printer will print an interior receipt for registering the operation.

„F” The order has been canceled. This happens if:

- The cash sum available is less than the ordered interior credit (serveIn),
- There is an opened fiscal and non-fiscal receipt.

CashSum Available cash. Apart from this command the sum grows after each payment in cash.

ServIn The sum from all commands “Interior credit”

ServOut The sum from all commands “Interior debit”

Changes the content of the cash availability register. Depending on the sign of the sum in question it is accumulated in the register for interior debit-credit. The information is not saved in the fiscal memory of the device and is accessible until the performance of the daily closure. It is printed out at the command **69 (45h)** and at the generation of the daily report without closure from the printer itself. At the successful completion of this command the drawer “kick-out” function is activated (if it is permitted wit subcommand **'X'** of command **43**).

47h (71) PRINTING DIAGNOSTIC INFORMATION

Data field: None

Response: None

The command initiates the generation of an interior receipt containing diagnostic information as follows:

- Prints the date and the version of the employed software,
- Prints the control sum of the employed firmware,
- Prints the serial port's baud rate,
- Prints out the status of the configuration keys and the number of the country
- Prints emergency time after power supply cut-off,
- Prints the number, date and hour of the last reset of the RAM (if there is such),
- Prints the current temperature of the two printer heads,
- Prints the overall number of fields in the fiscal memory and the number of the free fields,
- Prints the current date and hour.

The command will not be executed when there is an open receipt in progress or when the paper roll has finished. It may also be activated by pressing the <FEED> button while power on.

49h (73) DETAILED FISCAL MEMORY REPORT BY CLOSURE NUMBER

Data field: [[<SHA1>][<SkipZ>]<Start>,<End>]

Response: None

SHA1 - Optional argument - a byte with value '#'. If exists, for each Z-report and a check sum is printed (SHA-1 algorithm)

SkipZ - Optional argument - a byte with value '*'. If exists, for each Z-report are printed only the VAT groups with no zero amount.

A such report is not standard and its use is not encouraged.

Start The number of the starting fiscal entry - 4 bytes

End The number of the ending fiscal entry - 4 bytes

The command leads to the printing of a detailed report of the fiscal memory from one selected number to another. If no parameters are entered the command will be executed for the whole period of exploitation.

4Ah (74) READING THE STATUS OPTIONS

Data field: [Option]

Response: <S0><S1><S2><S3><S4><S5>

Option One byte with the following meanings:

„W“ All printer buffers must be printed out first.

„X“ The status is returned immediately (default).

Sn Status byte *n*.

4Ch (76) STATUS OF THE FISCAL TRANSACTION

Data field: [Option]

Response: Open,Items,Amount[,Tender]

Option =“T” If the parameter has been selected the command will return the information on the current state of the sum due for payment by the client.

Open One byte which is „1“ if a fiscal or a non-fiscal receipt has been opened (which it is can be understood from the status bytes) and „0“ if there is no opened receipt.

Items The number of sales registered on the on the current or last fiscal receipt - 4 bytes.

Amount The sum from the last fiscal receipt - 9 bytes with a sign.

Tender The sum tendered for the current or the last receipt - 9 bytes with a sign (Only if **Option** is present).

The command supports the PC application's ability to monitor the status and if needed to restore and complete an already started fiscal operation which has been interrupted on emergency or out of time - for example as a result of a power failure.

4Fh (79) SUMS ACCUMULATED IN THE FISCAL MEMORY FOR A SELECTED PERIOD

Data field: <Start>[,<End>]

Response: None

Start Start date - 6 bytes (DDMMYY)

End End date - 6 bytes (DDMMYY)

The command generates the printing out of a short periodic financial report.

If the second parameter is missing, the command will generate monthly or annual. The syntax in this case is:

Start Month - 4 bytes (MMYY) for monthly report.

Start Year - 2 bytes (YY) for annual report.

53h (83) SETTING THE MULTIPLIER, DECIMALS, CURRENCY NAME AND TAXES

Data field: [Multiplier,Decimals,Currency,EnabledT,TaxA,...]

Response: Multiplier,Decimals,Currency_name,EnabledT,TaxA,TaxB, TaxC,TaxD,...

Multiplier from 0 to 3 shows the extent of 10 to be multiplied by the input and output number.
Decimals 0 or 2 - place of the Decimal point.
Currency Currency name. Up to 6 bytes.
EnabledT 8 bytes with possible value of 0 or 1. 0 means the VAT is disable 1 means enable
TaxX Value of the VAT rate.

If the command is send without data field the device will return the current values

54h (84) BARCODE PRINTING

Data field: <Type>;<Data>

Response: None

Type Barcode type. 1 byte with possible value:

- '1' EAN8 bar code. Data contains only digits and is 7 bytes long. The check sum is automatically calculated and printed.
- '2' EAN13 bar code. Data contains only digits and is 12 bytes long. The check sum is automatically calculated and printed.
- '3' Code128 bar code. Data contains symbols with ASCII codes between 32 and 127. Data length is between 15 and 30 symbols (depends on the content – the maximum length is if all symbol are digits). The check sum is automatically calculated and printed.
- '4' Interleaved 2 of 5 (ITF) bar code without control sum printer.
- '5' Interleaved 2 of 5 (ITF) bar code with control sum.

'6' QR barcode.

Result One byte:

'P' No error.4

'F' Name longer than 30 bytes.

This command prints a barcode. It is accessible only if a receipt is opened. The barcode is printed centered. If the data separator is a comma, under the barcode is printed the information in text format too. If data length or/and its content are invalid, the status bit "syntax error" is set and a barcode is not printed. Barcode height is set with command 43.

55h (85) PROGRAMMING OF TYPES OF PAYMENTS

Data field: **Option[,Name][,[Cash][,Rate]]**

Response: **Result**

Option P, N, C, D, I, J, K, L, M, Q or R (symbol for payment type) corresponding to 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 or 11th payment number.

Name Up to 22 symbols specifying a new name for the payment, or one symbol "?".

Cash Option to change the cash-only attribute of the payment:

"C" - the payment will be cash-only.

"W" - the payment will no longer be cash only.

This field is empty - the cash-only attribute of this payment will not be changed.

Rate The exchange rate of this payment against the device's default currency. A number between 0.000001 and 999.999999 with precision to 6 decimal places.

Result Result of the command's execution. Depends on the passed arguments:

* **Option** - returns the current name of the specified payment type.

* **Option,?** - returns comprehensive information about the specified payment in the format: **Name,Cash,Rate** where **Name** is the payment type's name, **Cash** is "C" if the payment is cash-only or "W" otherwise, and **Rate** is the exchange rate of the payment against the device's default currency.

* In all other cases **Result** is a 1-byte status:

"P" if the payment was changed successfully.

"F" if an error occurred, e.g if the provided **Name** is too long or the provided arguments are the same with the current payment.

Note: The command will only work before the first fiscal receipt for the day has been issued.

56h (86) READING DATE AND TIME OF LAST FISCAL RECEIPT

Data field: **[<WithTime>]**

Response: **DT**

WithTime

DT

format:

DD-MM-YYYY

Optional - 'T'. Will return also time.

Date (or date and time) of the last fiscal receipt in

or
DD-MM-YYYY hh:mm:ss

57h (87) PROGRAMMING OF DEPARTMENT/ MANDATOR

Data field: <Dept>,<TaxGr>,<Line1>[<LF><Line2>]

Response: None

Dept Number of DEPARTMENT/ MANDATOR. Integer from 1 to 250. DEPARTMENTS are from 1 to 50. MANDATORS are from 51 to 250.

TaxGr Tax rate of the Department/Mandator.

Line1 Name or text of the Department/Mandator . Up to 20 symbols.

LF separator one byte – ASCII code 10.

Line2 Name or text of the Department/Mandator . Up to 20 symbols second line

All changes for the Mandator will be executed after Z report.

58h (88) AMOUNT ON DEPARTMENT/AGENCY

Data fields: <Dept>

Response: ExitCode[TaxGr,RecSales,RecSum,TotSales,TotSum,Line1<LF>Line2]

Dept Number of Department/Agency 1- 250.

ExitCode Един one byte:

'P' it is programed

'F' it is not programed no data.

TaxGr Tax group of the Department/agency.

RecSales number of sales.

RecSum Amount of the current or previous receipt in format 12.12

TotSales Number of sales of the current Department/agency of the day.

TotSum Amount of the day for the current Departmentagency.

Line1 Name of the Department/Agency.

Line2 Name of the Department/Agency line 2.

5Ah (90) RETURN DIAGNOSTIC INFORMATION

Data field: <Calc>

Response: <Model of device>,<Type of device>,<EJ type>

<FwRev><Sp><FwDate><Sp><FwTime>,<Chk>,<Sw>,<Ser>,<FM>

Calc - If "1" the control sum of the fiscal memory is calculated - 1 byte.

Model of device - Model of the device

Type of device - Type of the device

EJ type - EJ type 2 bytes

<Model of device>,<Type of device>,<EJ type> are forming the "Name of the device"

FwRev - The version of the software program.

Sp Space .

FwDate - The date of the software program.

Sp Space.

FwTime - Hour of the software program HH:MM

Chk - control sum - a 4 bytes string in the hexadecimal code. For example if the control sum is 214Ah it will be presented as 32h, 31h, 34h, 42h

Sw – **Not used** 2 bytes string with „0“ or „1“.

Ser - The serial number - 8 bytes.

FM - Number of the fiscal module - 8 bytes.

5Eh (94) DETAILED FISCAL MEMORY REPORT BY CLOSURE DATE

Data field: **[[<SHA1>][<SkipZ>]<Start>[,<End>]**

Response: None

SHA1 - Optional argument - a byte with value '#'. If exists, for each Z-report and a check sum is printed (SHA-1 algorithm)

SkipZ - Optional argument - a byte with value '*'. If exists, for each Z-report are printed only the VAT groups with no zero amount.

Such a report is not standard and its use is not encouraged.

Start - The number of the starting fiscal entry - 6 bytes (DDMMYY)

End - The number of the ending fiscal entry - 6 bytes (DDMMYY)

This command prints out a detailed financial report on the period between two selected dates.

If the second parameter is missing, this command generates monthly or annual report. The syntax in this case is:

Start Month – 4 bytes (MMYY) for monthly report.

Start Year – 2 bytes (YY) for annual report.

5Fh (95) SUMS ACCUMULATED IN THE FISCAL MEMORY FOR A GIVEN PERIOD OF TIME

Data field: **<Start>,<End>**

Response: None

Start Starting number of the fiscal entry

End End number of fiscal entry.

The command starts the calculation and the printing of a short periodic financial report. This report can be made by holding <FEED> when the printer to the fourth signal.

61h (97) READING THE SET TAX RATES

Data field: None

Response: **TaxA,TaxB,TaxC,TaxD,TaxE,TaxF,TaxG,TaxH**

TaxA Tax rate A

TaxB Tax rate B

TaxC Tax rate C

TaxD Tax rate D

TaxE Tax rate E

TaxF Tax rate F

TaxG Tax rate G

TaxH Tax rate H

63h (99) READING THE TAX REGISTRATION NUMBER

Data field: None
Response: **Text,Name**

Text The tax registration number as a text.
Name This is the comment in front of EIK.

66h (102) ENTERING OPERATOR'S NAME

Data field: **<OpCode>,<Pwd>,<OpName>**
Response: None

OpCode Operator's code (1 to 16)

Pwd Password (4 to 8 digits)

OpName Name of the operator (up to 24 symbols)

Enters one of the 16 operator names. The number and the name of the operator are printed at the beginning of each fiscal (clients) receipt. After three erroneous password entries the printer will block, it must then be switched OFF and ON again to continue operating. After initialization or reset of the operational memory all eight passwords locations are empty.

67h (103) INFORMATION ON THE CURRENT RECEIPT

Data field: None
Response: **CanVd,TaxA,TaxB,TaxC,TaxD, TaxE,TaxF,TaxG,TaxH,Inv,InvNum**

CanVd Possible/impossible return (sale registration with a negative sign) [„0" / "1"]

TaxA The sum accumulated under tax A

TaxB The sum accumulated under tax B

TaxC The sum accumulated under tax C

TaxD The sum accumulated under tax D

TaxE The sum accumulated under tax E

TaxF The sum accumulated under tax F

TaxG The sum accumulated under tax G

TaxH The sum accumulated under tax H

The command offers information on sums accumulated so far under the different tax groups and whether it is possible to return the registered items sold.

6Ah (106) DRAWER KICK OUT

Data field: **[<mSec>]**
Response: None

mSec - The length of the impulse in milliseconds (5-100)

Sends an impulse for opening the cash drawer. This parameter sets a new value for the length of the impulse, which is stored in the memory of the printer. If this parameter is skipped, the last entered value remains valid. After memory RESET a value of 15 ms is set.

6Bh (107) DEFINING AND READING ITEMS

Data field: **<Option>[Parameters]**
Response: **ErrorCode[,Data]**

Option One byte, defining the type of the selected operation. Depending on this, the command might – or might not – demand the entering of additional parameters. The possible values are: 'I', 'P', 'R', 'F', 'L'.

ErrorCode One byte, showing the result from the operation and having the following meaning:
- 'P' Successful command
- 'F' Unsuccessful command

Parameters Data on the command - described in detail further on.
<Option>

- **'I'** Article information
Syntax: <I>
Returns: <Total>,<Prog>,<Len>
Total Total programmable article count (10000 for this printer).
Prog Programmed article count.
Len Maximal article name length (36 for this printer).
- **'P'** Programming an item.
Syntax: <P><TaxGr><PLU>,<Group>,<SPrice>,[<Replace>]<Quantity>,<Name>
TaxGr Tax group. One byte ('A', 'B', 'C', 'D', 'E', 'F', 'G', 'H').
PLU Number of the item (1 to 29999)
Group Article group (1 – 50).
SPrice Singular price - up to 8 meaningful digits.
Replace A non-mandatory parameter – one byte with value 'A'. Changes the meaning of the next parameter (Quantity).
Quantity A number with up to 3 decimals – the available quantity of the article. If Replace is present, then the available quantity is replaced with this parameter, otherwise it is added to the old value (if the article is already programmed, of course). Every sale command of this article will decrease this value.
Name Name of the item - up to 20 bytes.
- **'R'** Reading Item data
Syntax: <R><PLU>
PLU Item number. 9 digits.
Returns: <P><PLU>,<TaxGr>,<Group>,<SPrice>,<Total>,<Sold>,<Available>,<Name>
PLU Individual number of the item. 9 digits (000000001 to 29999)
TaxGr Tax group - 1 byte
Group Article group. 2 digits (01 - 50).
SPrice Singular price. A floating-point number – decimal places depend on the count set using command 83 (53h).
Total Accumulated sum for this article.
Sold Accumulated quantity - a floating-point number with 3 decimal places.
Available Available quantity of this article.
Name The name of the item. Up to 20 symbols.
If the item cannot be found, one 'F' byte is returned.
- **'F'** Returning the data on the first found programmed item.
Syntax: <F>[<PLU>] If the parameter PLU is present, then the first programmed article with number greater than or equal to PLU is returned. If missing, PLU=1 is assumed. The returned data is similar to the subcommand 'R'.

- **'L'** Returning the data on the programmed item with the greatest number.
Syntax: <L>[<PLU>] If the parameter PLU is present, then the first programmed article with number lower than or equal to PLU is returned. If missing, PLU=29999 is assumed. The returned data is similar to the subcommand 'R'.

6Dh (109) PRINTING A DUPLICATE RECEIPT

Data field: **<Count>**
Response: None

Count - Number of duplicate receipts (only a value of 1 is accepted).
The command initiates the printing of a copy of the last closed receipt containing registered sales.

6Eh (110) ADDITIONAL DAILY INFORMATION

Data field: **[Num]**
Response: **Pay1, Pay2, Pay3, Pay4, Pay5, Pay6, Pay7, Pay8, Pay9, Pay10, Pay11, Closure, Receipt**

NUM 11 – If this parameter is sent 11 payments are received. Without the parameter only 8 will be received
Cash Paid in cash
Pay2 Pay Type 2
Pay3 Pay Type 3
Pay4 Pay Type 4
Pay5 Pay Type 5
Pay6 Pay Type 6
Pay7 Pay Type 7
Pay8 Pay Type 8
Pay9 Pay Type 9
Pay10 Pay Type 10
Pay11 Pay Type 11

Closure - Current (last) fiscal entry

Receipt - Number of the next fiscal receipt

Returns information on the distribution of the daily sum according to the terms of payment used.

71h (113) READING THE NUMBER OF THE LAST PRINTED DOCUMENT

Data field: None
Response: **DocNum**
DocNum The number of the last issued document (7 digits)

75h (117) DAILY FINANCIAL REPORT WITH DEPARTMENT REPORT

Data field: **[<Option>][N]**
Respond: **Closure, FM_Total, TotA, TotB, TotC, TotD, TotE, TotF, TotG, TotH**

Option : Type of the report
if '0' Print Z report will print "ФИСКАЛЕН БОИ".

'2' Report without zeroing

The command is closure to **69 (45h)** but prints department report in the beginning.

76h (118) DAILY FINANCIAL REPORT WITH DEPARTMENT REPORT AND PLU REPORT

Data field: [**<Option>**][N]
Respond: Closure,FM_Total,TotA,TotB,TotC,TotD,TotE,TotF,TotG,TotH

Option : Type of the report
 if '0' Print Z report will print "ФИСКАЛЕН БОИ".

'2' Report without zeroing

The command is closure to **69 (45h)** but prints department report and PLU report in the beginning.

81h (129) Parameter Retractor

Data field: **<Option>**[Parameters]
Respond: **<Option>**[Status,ReceiptS]

Parameter - parameter to define where to print the receipt out of the box or inside (only for ELTRADE EDITO-KSM-3473) values can be:

- 1 – By default print outside;
- 2 – Print inside;
- 3 – Print outside; not available for ELTRADE S2

I – returns information of the supporting functions of the printer
response: flags (logical or), Model (text).

Flags:

- * 1 - supports cutting
- * 2 - support for 2 paper exists
- * 4 - paper exit can be changed after presentation
- * 8 - supports eject

Model (text) –Type of printer (model of printer)

R – to retract the receipt inside of the box.

E – to retract the receipt outside of the box.

If the command is send without parameter, the answer will contain the current value of the parameter

Status – can be 1, 2 or 3.

ReceiptS - can be 1 or 0, 1 if there is a receipt in the retractor.

82h (130) READING A RECEIPT'S PRINT FIELDS

Data field: **[DocNum]**
Respond: **<QRString>,<CS>**

DocNum Optional argument, a receipt number. If not provided, the fields returned belong to the last digital receipt in memory, which was opened for registering a sale/credit (e.g with command 90h). In other words, the last fiscal receipt with a QR code.

QRString The string needed to generate a receipt's QR code.

CS The receipt's SHA1 checksum. Every receipt has one at the bottom.

The command will not be executed if:

- there is an open receipt;
- **DocNum** was specified but that document is not a fiscal receipt with a QR code.

83h (131) READING THE CURRENCY PARAMETER

Data field: None
Respond: **<ParN>,<Date1>,<Date2>,<Date3>**

ParN Value of the parameter that dictates in which currency the total sum should be printed

Date1 Date of the automatic transition of the parameter from "0" to "1".

Date2 Date of the automatic transition of the parameter from "1" to "2"

Date3 Date of the automatic transition of the parameter from "2" to "3"

Some of the dates may not be programmed, in which case the corresponding field is empty. The programmed dates are returned in "DD-MM-YY HH:MM:SS" format.

90h (144) OPENING FISCAL RECEIPTS/INVOICE/STORNO H-18/2018

Data field: **<OperName>,<UNP>[,<Type>,<FMIN>,<Reason>,<num>[,<time>[,<inv>]]]]**
Response: **Allreceipt, FiscReceipt**

Options:

- * **<OperName>,<UNP>**
- * **<OperName>,<UNP>,E**
- * **<OperName>,<UNP>,I**
- * **<OperName>,<UNP>,IE**
- * **<OperName>,<UNP>,S,<FMIN>,<Reason>,<num>[,<time>[,<inv>]]**
- * **<OperName>,<UNP>,SE,<FMIN>,<Reason>,<num>[,<time>[,<inv>]]**

In case the printer is working in ESFP system parameter <UNP> is replaced just with operator number YYYY

- * **OperName** – Name of operator
- * **UNP** Unique number for sale /EDXXXXXX-YYYY-NNNNNNN/
- * **Type** One or two symbols with value:

"I". Its presence causes printing of extended client note. Automatically after the header the number (ID) of the invoice is printed and after the first payment command a print of the sums by tax groups. After the payment information for the buyer should be printed using command 57 (39h).

"S" Credit note.

"E" Digital note. It's stored in memory but not printed. It's expected the note will be sent to the client digitally, after the string of its QR code is read with command **130 (82h)**.

"IE" Digital extended client note.

"SE" Digital credit note.

* **FMIN** Number of fiscal memory of the credit note /44XXXXXX/

* **Reason** reason for the credit operation:

"O" Operator error, only if the receipt issued from the fiscal memory.

"R" refund / Reclamation

"T" Reduction in the tax base.

* **num** Number of the receipt, which will be credit

* **time** Date and time of the note, in format "YYYY-MM-DDThh:mm:ss"

* **inv** Number of the invoice, if refund the note which is invoice.

* **Allreceipt** number of all issued notes (fiscal and service) from the last finished of the day to now /4 byte/

* **FiscReceipt** number of all issued client fiscal notes from the last finished of the day to now /4 byte/

The command will not be executed successfully, if:

- * There is opened fiscal or service receipt.
- * The fiscal memory is full
- * The fiscal memory is broken
- * Missing operator number or cashier number.
- * HEADER contains less than 2 rows.
- * There isn't set Unified Identity Code

91H (145) Discount/ surcharge of last PLU

Data field: <Type>,[Sign]<Value>

Response: None

Type - One byte with value of:

'A' Discount or surcharge in value.

'P' Discount or surcharge in percentage.

Sign – One byte with value in case of discount is '- '.

Value – Value of discount or surcharge depending on the “Sign”.

A discount is not allowed if it exceeds the sum of the sale.

Document version history

Version 1.0.0 (12.09.2016) – Pancho Dimitrov

Version 1.0.4 (16.10.2017) – Add commands 55H (85), 3AH (58), 6Bh (107), 3Fh (63)

Version 1.0.5 (16.11.2018) – Add command 90H (144)

Version 1.0.6 (23.11.2018) – Changed command 90H (144)

Version 1.0.7 (10.12.2018) – Changed command 90H (144)

Version 1.0.8 (11.12.2018) – Changed Status bytes

Version 1.0.9 (06.02.2019) – Changed command 35h (53)

Version 1.1.0 (15.02.2019) – Changed commands 5Ah (90), 6Eh (110)

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Version 1.1.2 (08.03.2019) – Changed commands 5Ah (90)

Version 1.1.3 (01.04.2019) – Add command 56h (86)

Version 1.1.4 (18.04.2019) – Add command 75h (117) and 76h (118)

Version 1.1.5 (28.05.2020) – Changed command 5Ah (90)

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Version 1.1.7 (14.07.2020) - Add command 91h(145).

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Version 1.2.6 (27.05.2025) - Added commands 82h(130), 83h(131). Changed commands 38h(56), 55h(85), 81h(129) and 90h(144). Removed deprecated options from command 2Bh(43).

Version 1.2.7 (28.05.2025) - Changed status bits 0.6, 1.6, 1.5, 1.4, 1.3, 1.2, 4.0, 5.1, 5.0. Changed commands 35h(53), 38h(56), 55h(85), 82h(130) and 83h(131).

Version 1.2.8 (29.05.2025) - Changed commands 35h(53), 38h(56) and 82h(130).

Version 1.2.9 (30.05.2025) - Changed commands 38h(56) and 82h(130).

Version 1.3.0 (12.06.2025) - Corrected formatting for command 90h(144).

Version 1.3.1 (25.06.2025) - Now any currency name can be passed in command 35h(53).

Version 1.3.2 (30.06.2025) - The **Name** parameter in command 55h(85) can now be longer.