

Communication program Online

Version 2.2

For cash registers Euro 2000M/T/TE and Euro 2500T

Document version 2.31

Elcom Ltd.

1. Free Version License

By receiving and/or using Elcom communication software, you accept the following Free Version User Agreement. This agreement is a binding legal agreement between Elcom Ltd. and the purchasers, users or evaluators of Elcom software and products. If you do not intend to honor this agreement, remove all installed Elcom software from your computer now.

2. Free Version Distribution

This Free Version software may be freely distributed, provided that:

1. Such distribution includes only the original archive supplied by Elcom, Ltd. You may not alter, delete or add any files in the distribution archive.
2. No money is charged to the person receiving the software, beyond reasonable cost of packaging and other overhead.

For information about redistribution of Elcom communication...

WWW: <http://www.elcom.sk>

E-mail: elcom@elcom.sk

3. Free Version User Agreement

3.1 Usage and distribution restrictions

The evaluator/user/buyer/owner may not use or distribute Elcom software for any unlawful purpose. The evaluator/user/buyer/owner is not allowed to attempt to disassemble or decompile Elcom Software and products.

3.2 Copyright restriction

Elcom name and any logo or graphics file that represents our software may not be used in any way to promote products developed with our software. All parts of Elcom software and products are copyright protected.

3.3 Limitation of responsibility

The evaluator/user/buyer/owner of Elcom software will indemnify and defend Elcom against lawsuits, claims, costs associated with defense or accusations that result from the use of Elcom software.

Elcom is not responsible for any damages whatsoever, including loss of information, interruption of business, personal injury and/or any damage or consequential damage without limitation, incurred before, during or after the use of our products.

Basic Online program features

Online program provides sale, refund, payment and void operations on PC and sale document of sale in ECR type Euro2000T/M/TE Alpha and Euro2500T.

Condition of correct data transmission between ECR and PC exist SETUP.DAT files and file ITEMS.TXT, which contains sale items.

File SETUP.DAT :

The file contains six lines with ASCII strings of following values:

1. line – number of serial port, permitted values: 1, 2, 3, 4 for COM1 - COM4
2. line – ECR number, permitted values: 1-99.
3. line – ECR type:

0 - Euro2000M Alpha	2400 PLU
1 - Euro2000T Alpha	2400 PLU
4 - Euro2000M Alpha	10000 PLU
5 - Euro 2000T Alpha	10000 PLU
6 - Euro2000TE Alpha	2400 PLU
7 - Euro2000TE Alpha	6000 PLU
9 - Euro2500T	9000PLU
12 - Euro2500T	18000PLU
4. line – transmission speed: 1-9600 or 2-38400.
5. line – state code:

0 - England
1 - Poland
2 - Slovakia
3 – Czech republic
6. line – break between sale items: 0 – 10000 ms.

Online program creates ERR file with return code after starting. The file contains info about running communication of particular items defined in ITEMS.TXT file (depends on error type)

0	Communication finished correctly
1	Communication error
3	Error – not finished sale in ECR, firstly finish the sale
4	Error – tax assignment out of range, or not active tax
5	Error – DPT assignment out of range
6	Error – sale unit out of range
7	Error – quantity out of range
8	Error – price out of range
9	Error – forbidden Online in particular mode
10	Error – command out of range or 2 times called command „3“ or „4“
11	Error – PLU number out of range
12	Error – text out of character set
13	Error – payment value out of range
14	Error – payment type out of range
15	Error – currency out of range
16	Sale command but sale not started
30	Number of serial port out of range
31	ECR number out of range
32	Incorrect ECR type
33	Incorrect communication speed in SETUP.DAT file
34	Error in ITEMS.TXT file
35	Time-out error
36	To open SETUP.DAT file impossible or do not exist

Note: It is possible to find out the Online program version using `online.exe /?` command

Description of input file format.

Notes to text:

- all file texts (PLU names) are in PCs LATIN code page. Online is converting them to internal ECR codes within sending to ECR (therefore right state code setting in SETUP.DAT file is important)
- separating character ';' defines end of particular datum and beginning of the other one in the file, it means that PLU name can not includes ';' character
- particular file lines are separated by character '\n' – new line (0x0D 0x0A hexadecimal)
- maximal 80 characters per line including '\n' character – new line (0x0D 0x0A hexadecimal)
- ECR can print double width characters – before double width character set byte 31 (0x1F), character can be set through key Alt and numeric keys 31. "Full triangle" character represents this value in the file.
- **It is necessary to respect right number ranges to obtain correct interpretation of sent values to ECR.!!!**
- **We recommend studying particular chapter of ECR user guide if you are not sure about PLU range flags.**

Attention:

It is possible to run ONLINE mode in R and T mode in case sale is not opened yet. ECR in ONLINE mode makes keyboard non-functional except **RESET** key, which allows to finish PC ONLINE mode. Then it is necessary to finish sale through ECR keyboard and next PC ONLINE sale can be started. ONLINE mode is cancelled also by switching the ECR off. Total sale through ON LINE mode is presents in PLU report as "PC - ON LINE".

ITEMS.TXT	Online sale
------------------	-------------

File is reading ITEMS.TXT file line by line. The line represents one PLU operation, particular data are separated with ';' separator. Each line format depends on used command and is transmitted item by item (one line) according to ON – LINE communication description.

Command	Meaning
1	PLU sale
2	PLU refund
3	Finishing sale – simulation of pressing "TOTAL" key
4	Finishing ONLINE communication, sale can be opened and can be finished through ECR keyboard
5	Payment
6	PLU voiding

Command 1, 2, 6:

1. command
2. PLU name - 14 characters (20 for Euro2500T) in code page PCs LATIN, PLU name can not contains '\0' character (ending string character). Program reads string until separator ';' and cut it to 14 or 20 characters
3. sale unit assignment - number 1 to 8 defines unit text. Text is printed behind quantity data, if the sale is entered through programmed text in ECR.
- number 9 defines descriptive PLU
4. DPT assignment - number 1 to 8 defines PLU assignment to department
5. VAT assignment - number 1 to 7 defines assignment to tax level, and number 7 means PLU without tax.
6. PLU price – price multiplied by 10^(number of decimal places for price displaying in ECR – system flag 1, 6 digit – see ECR users guide
Value not negative, zero, and more than 99 999 999
Example: if 1. flag digit 6 set 2 and price set 123.50 => 123.50 *10^2 = 12350
7. quantity – quantity multiplied by 10^3
value not negative, zero and more than 9 999 999
Example: quantity 1.234 => 1.234 *1000 = 1234

- 8. index for PLU database of ECR
 0 – PLU will be sold – PLU name, sale unit, DPT and VAT assignment, price and quantity will be used by selling
 1 – MAXPLU – PLU with this index will be sold from PLU database ERP. PLU name and flags are used form PLU database. Price is used from packet (if price is more than 0) or from PLU database ERP if price value is 0.

Command 3, 4:

- 1. command

Line with command 3 or 4 contains following formats:

3\n
 or
 4;Little rolls;1;7;2;070;3000\n

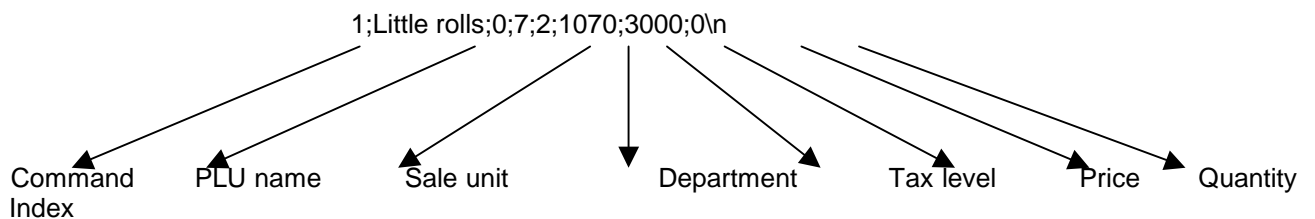
Data behind separator ‘;’ are ignored using command 4
ITEMS.TXT file can use only one command from commands 3 and 4.

Command 5:

- 1. command
- 2. paid value – value not negative, zero and more than 2 100 000 000
- 3. payment type
 0 - cash
 1 - check
 2 - credit – printing number of credit card when system flag 4, digit 2 is set
- 4. payment currency flag – make a difference only in 1., 2., 3. Euro phase
 0 – basic currency
 1 – second currency
- 5. credit card number - string (maximal 19 characters + ending character).

Example of output file format.

```
1;Little rolls;1;7;2;1070;3000;0\n
6;Little rolls;1;7;2;1070;3000;0\n
1;Item 2;1;1;1;5643;1000;0\n
2;Item 2;1;1;1;5643;1000;0\n
5;1200;0;0;123456789\n
3\n
```



<u>LASTITEM.SAL</u>	Obtaining last sold PLU information
----------------------------	-------------------------------------

Set command number 147 to ITEMS.TXT file and we reach data of last sold item from ECR

File structure:

1. **line**
2. number of items in buffer of sold PLUs
3. value
4. number of particular receipt
5. total
6. total in second currency
2. **line** – contains last sold item through Online

<u>TAXINFO.SAL</u>	Obtaining tax information of opened sale
---------------------------	--

Set command number 148 to ITEMS.TXT file and we read tax data of opened sale

File structure:

1. **line** – total (in base currency)
2. **line** – value in non-taxable level
3. **line**
 1. taxable value in tax level 1
 2. tax value in tax level 1
4. - 8. **line** – taxable value and tax value for other tax levels