MANAGER MANUAL

ELECTRONIC CASH REGISTERS

NEXA NE-510

Revision history

Version	Last updated	Author
1.0	30.06.2014	NEXA
1.1	10.09.2014	NEXA
1.2	26.11.2020	NEXA

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CONTENT

1   Manual instructions

1.1 PROGRAMMING SEQUENCE

In order to start programming operations, it is necessary to indicate programming section number and

confirm it with **[# / NS]** / `NS/#` key, for example:

10 **[# / NS]** … 10 – number of the section to be programmed

Then values have to be entered and confirmed by **[CASH] /** `CASH` key.

vv … **[CASH]**

In case of erroneous entry, it will be cancelled by pressing **[CLEAR] /** `C` key.

To close section programming procedure and exit the programming section,

[# / NS] / `NS/#` key has to be pressed.

1.2 SYMBOLS (AND TERMS) USED IN THIS MANUAL

[key]	indicates the function key to be pressed
ss	indicates section
ff	indicates field
vv	indicates value
rr	indicates record
[key]	grey colour indicates the optional function to be performed that can be skipped

2   Initialization

1.   **RESUME START**
     ECR memorizes what operations were in progress, when power was turned off. In case of power-off (resulting after normal shut-off by power switch, accidental disconnection of the power adapter, mains power supply shortage or operating battery disconnection) ECR logics save the data and the states of ECR data registers to properly restore them after power recovery. Resume start is used to resume the mentioned operations. For example, if printing was in progress, when power was turned off, printing would be resumed upon resume start (pre-set data and registered data are maintained). The incompletely printed line would be re-printed on next power-on.

2.   **SOFT START**
     Procedure used to escape ECR hardware locks and reset device drivers. ECR data will not be affected.

     -   Press and hold **[CLEAR]** / `C` key for 5 seconds.

3.   **WARM START**
     If ECR operation results in errors and it cannot be restored using standard methods (e.g. unexpected software error, or any of ECR devices stops functioning), ECR warm start procedure can be applied, which in most cases will renew the ECR functionality without deleting the data.
     -   Open ECR. Press shortly the Reset switch to power OFF ECR.
     -   Power ON ECR.

4.   **COLD START**
     ECR will be completely initialized. All pre-set data and counters will be cleared and default values will be set.

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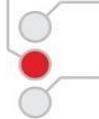
- Cold start procedure for **NE-510**:
    1) Press and hold **RESET** button located on the right to the receipt printer in printer compartment until ECR completes power OFF.
    2) Press and hold key 1 and power ECR on by pressing key 2.
    3) Wait for 2 seconds and release key 1.

3 Character Entry

Refer to NE-510 alphabet keyboard layout

ON/OFF	FEED	ALPHA	#/NS	MODE	↓	↑	RETURN /	VOID	−	X/TIME	%-	CREDIT	SHIFT
A 32	B 28	C 24	D 20	E 16	F 12	G 8	H 4	EC	7	8	9	CHECK	CHARGE
I 31	J 27	K 23	L 19	M 15	N 11	O 7	P 3	PLU	4	5	6	R/A	P/O
Q 30	R 26	S 22	T 18	U 14	V 10	W 6	X 2	PRICE	1	2	3	SUBTOTAL	
Y 29	Z 25	(21	) 17	: 13	; 9	" 5	␣ 1	CLEAR	0	00	. ,	CASH	

To delete the last entered character, press: EC .

4 S mode operations

4.1 S MODE SECTIONS

Section, ss	Section name	ff	Establishment Item
01	Memory allocation	01	The number of Department
		02	The number of Payment
		03	The number of Currency
		05	The number of PLU
		06	The number of Customer accounts
		07	The number of Clerk
		08	The number of Clerk profiles
		10	The number of Modifier
		11	The number of Pre-set PLU
		13	The number of Payment card range
		16	The number of Electronic journal lines
		17	The number of Transaction log lines
		18	The number of PO options
		19	The number of RA options
		20	The number of Macro
		21	The number of Link PLU
		22	The number of Automatic promotions
		23	The number of Report lists
		24	The number of Measurement units
		25	The number of Kitchen printer
		26	The number of PLU groups
02	System settings	03	Rounding
		05	Language
		07	Printing density
		08	S mode access password
		09	PRG mode access password
		10	Z mode access password
		11	ECR serial number
		12	Site ID
		13	EJ storage
		14	EJ near full, line count
		15	Receipt printer enable
		16	Journal printer enable
		17	Trn. Log storage
		18	Electronic journal storage (years)
		19	Power save
		20	Power off
03	Memory clear	01	All RAM Clear
		02	Programming area Clear
		03	PRG section Clear
		04	Report area Clear
		05	All tracks
04	Key assign	01	Operation
		02	Shift
		03	Alphabet1
		04	Alphabet2
05	Communications	01	Data send timeout (ms)
		02	Data receive timeout (ms)
		03	Response timeout (ms)
		04	Retries
		05	ETH password
06	Activation codes	02	Fiscal printer mode
		03	PC communications activation
08	Fiscal system setup	01	Fiscal serial ID
		02	Fiscal serial number
		03	Tax registration number
		04	Store tax reg number to fiscal module
		05	Store header text to fiscal module
		06	Store tax rates to fiscal module
		07	Fiscalize

Section, ss	Section name	ff	Establishment Item
90	**Mode S settings printout**	01	Memory allocation
		02	System settings
		05	Communication settings
		06	Activation codes
91	**Backup/Restore**	01	Backup
		02	Restore

4.2 S MODE ACCESS

NEXA NE-510:

[MODE] , [↑] or [↓] - select S mode - [CASH]
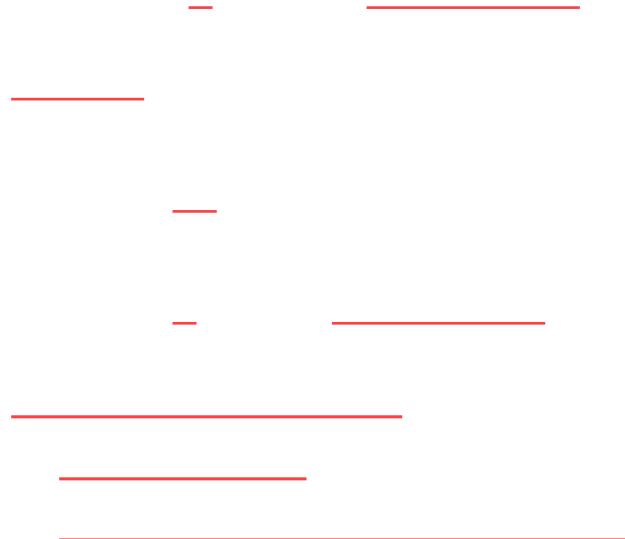
4.3 S MODE PROGRAMMING

Enter S mode section programming:
    ss **[# / NS]**,
    ss ... Section number.

Close S mode programming:
    [# / NS]

4.4 MEMORY ALLOCATION (S SECTION - 01)

[1] - **[# / NS]** - ff **[X / TIME]** - vv **[CASH]** - **[# / NS]**

ff   field number
vv   value within value range

Field, ff	Field name	Value range, vv	Value set by default
01	The number of Department	1-99	99
02	The number of Payment	1-99	5
03	The number of Currency	1-99	5
05	The number of PLU	1-5000	5000
06	The number of Customer accounts	1-3000	10
07	The number of Clerk	1-99	10
08	The number of Clerk profiles	1-10	5
10	The number of Modifier	1-99	10
11	The number of Pre-set PLU	1-99	68
13	The number of Payment card range	1-99	10
16	The number of electronic journal lines	1-3450	0
17	The number of Transaction log lines	1-3450	0
18	The number of PO options	1-99	5
19	The number of RA options	1-99	5
20	The number of Macro	1-99	5
21	The number of Linked PLU	1-99	10
22	The number of Automatic promotions	1-99	0
23	The number of Report lists	1-99	5
24	The number of Measurement units	1-99	1
25	The number of Kitchen printer	1-99	2
26	The number of PLU group	1-99	0
27	Barcodes	5000	0

Allocation item	Record size (bytes)
DEPARTMENT	59
TENDER	120
CURRENCY	17
PLU	77
CUSTOMER	117
CLERK	315
CLERK PROFILE	26
MODIFIER	57
PLU PRE-SET	8
CARD RANGE	19
TRANSACTION LOG	115
PAID OUT	23
RECEIVED ON ACCOUNT	23
MACRO KEY	23
LINKED PLU	37
AUTOMATIC PROMOTION	18
REPORT ARRANGEMENT	7

Example*:* Set number of PLUs as 2500.

(S) mode.
[1] [# / NS]   – enter section 'MEMORY ALLOCATION'
[5] [X / TIME]   – select field #5 (number of PLU)
[2] [5] [0] [0] [CASH]   – enter '2500' : max number of PLUs 2500
[# / NS]   – close section 'MEMORY ALLOCATION'

4.5 SYSTEM SETTINGS (S SECTION - 02)

[2] – **[# / NS]** – ff **[X / TIME]** – vv **[CASH]** – **[# / NS]**

        ff   field number
        vv   value within value range

Field, ff	Field name	Value range	Value set by default
03	Rounding	0 – No rounding 1 – rounding 4/5 **(SG)** 2 – round up **(SG)** 3 – round down **(SG)** 4 – rounding 2/3 **(SG)**	
05	Language	1 – Latvian 2 – English	1
07	Printing density	1 – 6 Lightest : 1 Darkest : 6	4
08	S mode access password	Max 20 characters	none
09	PRG mode access password	Max 20 characters	none
10	Z mode access password	Max 20 characters	none
11	ECR serial number	Max 16 characters	00000000
12	Site ID	Max 16 characters	00
13	Electronic journal storage	0: do not store 1: RAM 2: SD	0
14	Electronic journal near full warning, free space (print lines)	0 – 99999	500
15	Receipt printer enable	0 – don't print 1 – print	1
16			
17	Transaction data storage	0 - none 1 - RAM 2 - SD card 3 - RAM and SD card	1
18	Electronic journal storage (years)	0-99	0
19	Power save	1-9999	30
20	Power off timeout	1-9999	60

Example : Set Language - English.

        (S) mode.
        [2] [# / NS]   – enter section 'SYSTEM SETTINGS'
        [5] [X / TIME]   – select field #5 (language set-up)
        [2] [CASH]   – enter '2': English
        [# / NS]   – close section 'SYSTEM SETTINGS'

4.6 MEMORY CLEAR (S SECTION - 03)

[3] – **[# / NS]** – ff **[X / TIME]** – **[VOID]** – **[CASH]** or **[CLEAR]** – **[# / NS]**

ff	field number
[VOID]	delete command
[CASH]	delete confirmation
[CLEAR]	cancel delete operation

Field, ff	Field name	Description
01	All RAM Clear	ECR RAM clear
02	Programming area Clear	PRG area initialization
03	PRG section Clear	PRG section selective clear
04	Report area Clear	To initialize all data to be output in reports. In this case, Z1 and Z2 counters are also reset. Such data as grand total which is not reset by report issuance will also be reset
05	All Tracks	Clear all open tracks
06	Statistics counter	Clears Financial report statistics area counters

Example *:* Clear Report counters.

(S) mode.
[3] [# / NS] – enter section 'MEMORY CLEAR'
[4] [X / TIME] – select field #4 (report area clear)
[VOID] – execute clear command
[CASH] – confirm clear command
[# / NS] – close section 'MEMORY CLEAR'
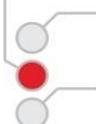
4.7 CLEARING PROGRAMMED PRG SECTIONS (S SECTION - 03)

[3] – **[# / NS]** – **[3]** – **[X / TIME]** – ss – **[VOID]** – **[CASH]** or **[CLEAR]** – **[# / NS]**

ss	section number
[VOID]	delete command
[CASH]	delete confirmation
[CLEAR]	cancel delete operation

PRG section, ss	Section Name
01	Departments
03	PLU
04	Link PLU
05	PLU group data
08	Payments
09	Modifiers
10	Automatic promotion data
12	ECR machine number
13	ECR system flags
16	Foreign currencies
18	Printer option
19	Item print option
22	PLU pre-set key settings
23	COM port settings
24	Pre-set PLUs
25	PLU price change
26	Clerks
27	Clerk profiles
30	TAX
31	Header

PRG section, ss	Section Name
32	Footer
34	Customers
40	Printers
42	PLU barcode
43	Total barcode
44	Instore barcode settings
45	Report lists
46	Measurement unit
47	Payment card ranges
48	PO options
49	RA options
51	Macro data
52	FTP communication data
53	Ethernet set-up data
54	Online operation set-up data
57	GPRS operation set-up data
79	Advanced programming access
90	PRG mode data print
95	Service reminder
96	Scheduled tax change

Example: Clear Footer Text.

(S) mode	
[3] [# / NS]	– enter section 'MEMORY CLEAR'
[3] [X / TIME]	– select field #3 (PRG section clear)
[3] [2] [VOID]	– execute section # 32 (footer text) clear command
[CASH]	– confirm clear command
[# / NS]	– close section 'MEMORY CLEAR'

4.8 KEY ASSIGN (S SECTION – 04)

[4] – **[# / NS]** – ff **[X / TIME]** – cc ddd – **[key]** – **[# / NS]**

ff	keyboard layout number
cc	function code
ddd	key data (number)

4 possible keyboard layouts are available:

K/b layout number, ff	K/b layout name	K/b layout usage	Operation
01	Operation	S, PRG, REG, X, Z mode	Provides basic ECR functions
02	Shift	REG mode	Provides additional ECR functions
03	Alphabet1	REG mode, when [ALPHA] has been pressed	Comment and text entries
04	Alphabet2	REG mode, when [ALPHA] has been pressed repeatedly	For special characters in comment and text entries

Note: standard keyboard layouts are as follows:

NE-510 RAISED

ON/OFF	FEED	ALPHA	#/NS	MODE	↓	↑	RETURN /	VOID	–	X/TIME	%-	CREDIT	SHIFT
A 32	B 28	C 24	D 20	E 16	F 12	G 8	H 4	EC	7	8	9	CHECK	CHARGE
I 31	J 27	K 23	L 19	M 15	N 11	O 7	P 3	PLU	4	5	6	R/A	P/O
Q 30	R 26	S 22	T 18	U 14	V 10	W 6	X 2	PRICE	1	2	3	SUBTOTAL	
Y 29	Z 25	(21	) 17	: 13	; 9	" 5	␣ 1	CLEAR	0	00	. ,	CASH	

NE-510 FLAT

ON/OFF	FEED	ALPHA	#/NS	MODE				CL. REP	RETURN	-%	CLERK	RA	SHIFT
A	B	C	D	E	F	G	H 10 / 5	TRF	VOID	–	X/TIME	PO	CREDIT 3
I	J	K	L	M	N	O	P 9 / 4	BILL	EC	7	8	9	CREDIT 2
Q	R	S	T	U	V	W	X 8 / 3	TRK#	PLU	4	5	6	CREDIT
Y	Z	,	;	:	(	)	! 7 ? 2	↑	PRICE	1	2	3	SUB TOTAL
"	@	#	$	%	^	&	. 6 - 1	↵	CLEAR	0	00	.	CASH

Key function code table:

Function code, cc	Function	Data format, cc ddd
00	NO FUNCTION	00 000
01	FEED	01 000
04	DEPARTMENT	04 NNN (NNN : number)
05	MACRO	05 NNN (NNN : number)
06	TEXT CHARACTER	ASCII code
07	00	07 000
08	000	08 000
09	PRICE	09 000
10	PRICE LEVEL	10 000
11	ALFAB.	11 000
12	ERROR CORRECT	12 000
13	MODIFIER (+, -, %+, %-)	13 NNN (NNN : number)
14	X / TIME	14 000
15	RA	15 NNN (NNN : number)
16	PO	16 NNN (NNN : number)
17	SHIFT	17 000
18	PLU#	18 000
19	PRE-SET PLU	19 NNN (NNN : number)
20	CLERK	20 000
21	RETURN	21 000
22	VOID	22 000
23	CLEAR	23 000
24	# / NS	24 000
25	SUBTOTAL	25 000
26	PAYMENT	26 NNN (NNN : number)
27	UPWARDS	-
28	DOWNWARDS	-
29	SCALE	29 000
30	CUSTOMER ACC#	30 000
31	RECEIPT COPY	31 000
34	RA / UPWARDS	34 NNN (NNN : number)
35	PO / DOWNWARDS	35 NNN (NNN : number)
36	FOREIGN CURRENCY	36 000
37	RECEIPT OFF	37 000
43	TRACK	43 000
44	LIST	44 000
45	CLERK'S OPEN TRACK REPORT	45 000
46	BILL PRINT	46 000
47	TAX SHIFT	47 000
48	SCAN	48 000
49	TRANSFER	49 000
50	TRANSACTION ON HOLD (SUSPEND)	50 000
51	NON TURNOVER INVOICE	51 000

*Example***:** Assign function keys for PRICE and Payment #4.

```
( S ) mode
[4] [ # / NS ]                    – enter section 'KEY ASSIGN'
[1] [ X / TIME ]                  – select keyboard layout #1 (ECR functions)
[0] [9] ] [0] [0] [0] [ key ]     – assign PRICE function to key
[2] [6] ] [0] [0] [4] [ key ]     – assign PAYMENT #4 function to key
 [ # / NS ]                       – close section 'KEY ASSIGN'
```

4.9 COMMUNICATIONS AND ETHERNET PASSWORD GENERATION (S SECTION – 05)

[5] – **[# / NS]** – ff – **[X / TIME]** – vv – **[CASH]** – **[# / NS]**

        ff   field number
        vv   value within value range

Field, ff	Field name	Value range, vv	Value set by default
01	Data send timeout (s)	0 – 20	10
02	Data receive timeout (s)	0 – 20	10
03	Response timeout (s)	0 – 20	2
04	Retries	0 – 99	5
05	ETH password	10 digits	-

Note: Generate Ethernet password (S mode, Section 05, step 5) according to the following formula:

[5] - [# / NS] – 5 - [X / TIME] – [.] - [CASH] - [# / NS]

Ethernet access password is printed on receipt.

Valid password must be entered in communication driver configuration file sdrv.ini to establish PC communication using LAN connection.

Example: Set Data receive timeout as 2 seconds.

        (S) mode
        [5] [# / NS]   – enter section 'COMMUNICATIONS'
        [2] [X / TIME]   – select field #2 (data receive timeout, ms)
        [2]] [0] [0] [0] [CASH] – enter '2000' : 2 seconds
        [# / NS]   – close section 'COMMUNICATIONS'

4.10 ACTIVATION CODES (S SECTION – 06)

[6] – **[# / NS]** – ff – **[X / TIME]** – vv – **[CASH]** – **[# / NS]**

        ff   field number
        vv   value within value range

Field, ff	Field name	Value range, vv	Value set by default
02	Fiscal printer mode activation	10 characters	3550632474
03	PC communications activation	10 characters	3936518423

4.11 FISCAL SYSTEM SETTINGS (S SECTION – 08) – FISCAL VERSION ONLY

[8] – [# / NS] – ff – [X / TIME] – vv – [CASH] – [# / NS]

ff	field number
vv	value within value range

Field, ff	Field name	Value range, vv	Value set by default
01	Fiscal serial ID	2 characters	-
02	Fiscal serial number	8 digits	-
03	Tax registration number	14 characters	-
04	Store Tax registration number to fiscal module	0 – no 1 – yes	-
05	Store text header to fiscal module	0 – no 1 – yes	-
06	Store tax rates to fiscal module	0 – no 1 – yes	-
07	Fiscalize	3216	-

4.12 MODE S SETTINGS PRINTOUT (S SECTION – 90)

[90] – [# / NS] – ss – [X / TIME] – 1 – [CASH] – [# / NS]

ss	S section number
1	print all entries

Section number, ss	Section name
01	Memory allocation
02	System settings
05	Communication settings
06	Activation codes

Example: Print out communication settings.

(S) mode.	
[90] [# / NS]	– enter section 'S MODE SETTINGS PRINTOUT'
[5] [X / TIME]	– select field #5 (communication settings)
[1] [CASH]	– printout communication settings
[# / NS]	– close section 'S MODE SETTINGS PRINTOUT'

Note: *to terminate printing, press* **[CLEAR]***, while printing.*
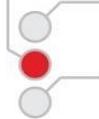
4.13 BACKUP/RESTORE (S SECTION – 91)

[91] – **[# / NS]** – ss – **[X / TIME]** – 1 – **[CASH]** – **[# / NS]**

ss   S section number
1   activate function

Section number, ss	Section name
01	Backup
02	Restore

Note: *Check for SD card presence before you start Backup process.*

Example: Read all data from SD card.

(S) mode
[91] [# / NS]   – enter section 'BACKUP/RESTORE'
[2] [X / TIME]   – select field #2 (Restore)
[1] [CASH]   – read all data command
[# / NS]   – close section 'BACKUP/RESTORE'

5   PRG mode operations

5.1 PRG MODE SECTIONS

PRG section code, ss	PRG section name
01	Department data
03	PLU data
04	Link PLU
05	PLU group
08	Tender media data
09	Discount and surcharge (Modifier) data
10	Automatic promotion data
12	Machine number data
13	ECR system option data
14	Date
15	Time
16	Foreign currency data
18	Printer option data
19	Print option data
22	PLU pre-set key setting
23	RS-232 com port settings data
24	Pre-set PLU key data
25	PLU price change
26	Clerk data
27	Clerk profile data
30	Tax data

PRG section code, ss	PRG section name
31	Header data
32	Footer data
34	Customer data
40	Kitchen printer
42	PLU barcode
43	Total barcode
44	In-store barcode format data
45	Report lists
46	Unit of measure
47	Loyalty card data
48	PAID OUT descriptor data
49	RECEIVED ON ACCOUNT descriptor data
51	Macro data
52	FTP communication data
53	Ethernet set-up data
54	On-line operation set-up data
57	GPRS operation set-up data
79	Advanced programming access
90	PRG mode data print
95	Service reminder
96	Scheduled tax change (HU vers. only)

5.2 PRG MODE INITIALIZATION
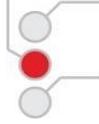
NE-510

[MODE] , [↑] or **[↓]** - select PRG mode - **[CASH]**

5.3 PRG MODE PROGRAMMING DESCRIPTION

PRG mode key operations

Programming is executed in several steps:
- Choice of programming sections (PLU, Departments etc.).
- Adding entry by filling in the programmable fields.

To move between the entries in sections and fields, use the following keys:

Function key	Input format	Operation	Description
[# / NS]	ss [#/NS]	Open Data table	Enter PRG Section
	rr [#/NS]	Go to rr record#	Select record number and press [#/NS]
[↑] or [↓]	[↓]	Navigate down through the list.	Navigate to the required position.
	[↑]	Navigate up through the list.	Navigate to the required position.
[X / TIME]	ff [X/TIME]	Go to ff field	Select field number and press [X/TIME]
[SUBTOTAL]	[SUBTOTAL]	Go to next record same field	Move forward to next record
	vv [SUBTOTAL]	Write value vv and go to next record same field#	Store entered value and move to next record
[CASH]	[CASH]	Go to next field ff	Move to next field of same record
	vv [CASH]	Write value vv and go to next field ff	Store entered value and Move to next field of same record
[CLEAR]	[CLEAR]	Clear pre-set value	Clears pre-set value of current field

Choice of particular function: ss **[# / NS]**, where ss is section number. By default the first section entry appears.

Maximum number of entries in each section depends on settings in the Table Sizes (S mode 01).

In the fields, in which the permissible values are 0 – 1; „1' denotes the active field.

ECR data table example
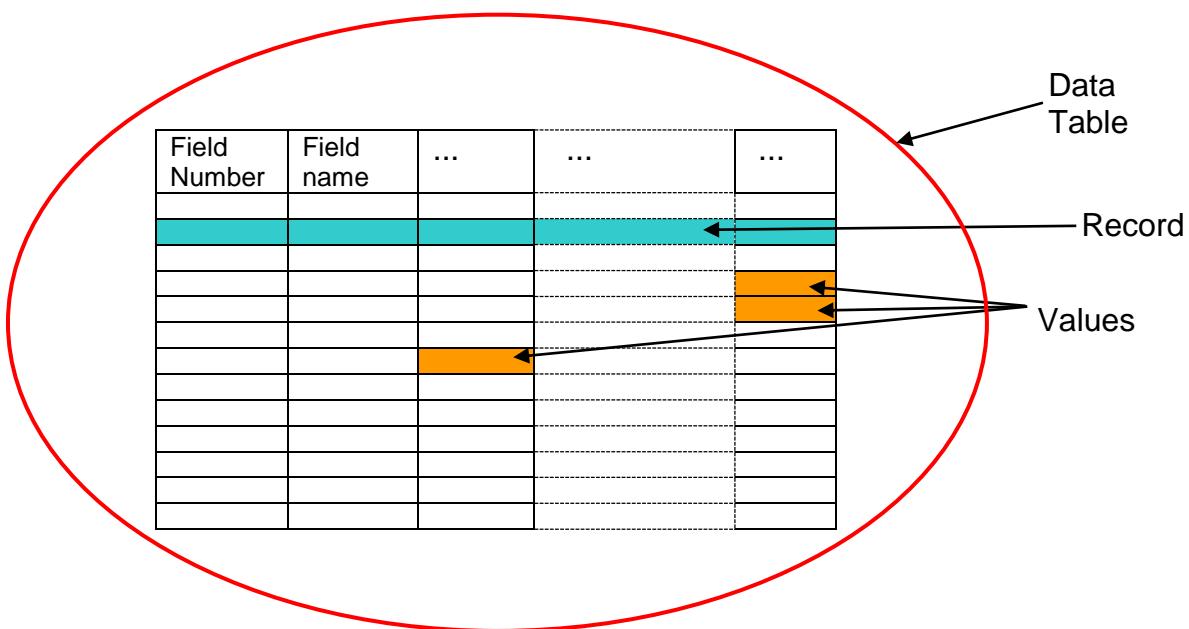
Note:
1. Entering the PRG section will always be located in data table initial position : record #1, field#1.
2. The number of records in each PRG data table is configurable and fixed according to S 01 mode settings.
3. Use **[#/NS]** to escape from PRG section.
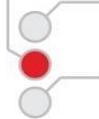
5.4 DEPARTMENT DATA (PRG SECTION – 01)

Number of Department – Pre-set by S mode Section 01 - 01

[1] - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

rr	department number
ff	field number
vv	value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Name	Department name	20 characters	-
02	Pre-set Price	Department price	8 digits	0.00 – 999999.99
03	TAX	Tax number	2 digits (0 – non-taxable)	Set according S mode Sect 30
04	HALO/LALO	High Amount Lock Out: Low Amount Lock Out: 0=No limit. 1=1Digit (0 - 9) 2=2Digits (0 - 99) 3=3Digits (0 - 999) 4=4Digits (0 - 9999) 5=5Digits (0 - 99999) 6=6Digits (0 - 999999) 7=7Digits (0 - 9999999)	2 digits; 1st digit stands for HALO value 2nd digit stands for LALO value	00-77
05	Negative	0 – positive 1 – negative	1 digit	0-1
06	Zero price entry allowed	0 – disable 1 – enable	1 digit	0-1
07	Department type	1 – standard department 2 – deposit (LT ver.) 3 – tare (LT ver.)	1 digit	1-3
08	Single item	0 – standard 1 – single item	1 digit	0-1
09	Measurement unit	Measurement number	2 digits	0-99
10	Ignore modifiers	0 – disable 1 – enable	1 digit	0-1

Note: *Barcode scanning can be used for PLU number entry.*

5.5 PLU DATA (PRG SECTION – 03)

Number of PLU – Pre-set by S mode Section 01 – 05

[3] - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

       rr   department number
       ff   field number
       vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Name	PLU name	20 characters	-
02	Pre-set Price 1	1st price level	8 digits	0.00 – 999999.99
03	Pre-set Price 2	2nd price level	8 digits	0.00 – 999999.99
04	Pre-set Price 3	3rd price level	8 digits	0.00 – 999999.99
05	TAX	Tax number	2 digits (0 – non-taxable)	Set according S mode Sect 30
06	Department	Link department number	2 digits	Set according S mode Sect 01
07	HALO/LALO	High Amount Lock Out: Low Amount Lock Out: 0=No limit. 1=1Digit (0 - 9) 2=2Digits (0 - 99) 3=3Digits (0 - 999) 4=4Digits (0 - 9999) 5=5Digits (0 - 99999) 6=6Digits (0 - 999999) 7=7Digits (0 - 9999999)	2 digits; 1st digit stands for HALO value 2nd digit stands for LALO value	00-77
08	Negative	0 – positive 1 – negative	1 digit	0-1
09	Zero price entry allowed	0 – disable 1 - enable	1 digit	0-1
10	PLU group number		2 digits	1-99
11	Price override	0 – disable 1 – enable	1 digit	0-1
12	Quantity compulsory	0 – disable 1 – enable	1 digit	0-1
13	Skip printing on receipt (for zero price only)	0 – disable 1 – enable	1 digit	0-1

  Note: *Barcode scanning can be used for PLU number entry.*
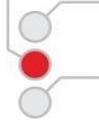
5.6 PLU RECORD DELETE (PRG SECTION – 03)

[3] - **[# / NS]** - rr - **[NS]** - **[VOID]** - **[CASH]** or **[CLEAR]** - **[# / NS]**

        rr   PLU number
        [VOID]   delete command
        [CASH]   delete confirmation
        [CLEAR]   cancel delete operation

Note: PLU number can be entered as follows:
        1) Enter PLU number and press [# / NS].
        2) Repeatedly press [SUBTOTAL] till the necessary PLU is displayed.
        3)   Use barcode scanner.
        4) Use pre-programmed PLU key.

Example: delete PLU No. 45 and all the data programmed for it.

    Open PRG mode.
    [3] [# / NS] enter section 'PLU data'
    [4] [5]   enter PLU number
                 (Barcode scanning can be used for PLU number entry as well.)
    [# / NS]   open PLU No.45
    [VOID]   activate PLU delete command
    [CASH]   confirm PLU delete
    [# / NS]   close section 'PLU data'

5.7 LINK PLU DATA (PRG SECTION – 04)

Number of Link PLUs – Pre-set by S mode Section 01 – 21

[4] - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

        rr   main PLU number
        ff   field number
        vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Link PLU1	Link PLU1 number	13 digits	1 – 9999999999999
02	Link PLU2	Link PLU2 number	13 digits	1 – 9999999999999
03	Link PLU3	Link PLU3 number	13 digits	1 – 9999999999999
04	Link PLU4	Link PLU4 number	13 digits	1 – 9999999999999
05	Link PLU5	Link PLU5 number	13 digits	1 – 9999999999999

5.8 PLU GROUP DATA (PRG SECTION – 05)

Number of PLU groups – Pre-set by S mode Section 01 – 26

[5] - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

        rr   main PLU number
        ff   field number
        vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Name	PLU group name	20 characters	-
04	Printer	Printer number for order tickets (see section 40)	1-2 digits	0-99

5.9 TENDER MEDIA DATA (PRG SECTION – 08)

Number of Tender media – Pre-set by S mode Section 01 – 02

[8] - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

        rr   media number
        ff   field number
        vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Name	Name of the tender media	20 characters	-
02	Currency	Select according PRG mode Sect 16 settings	2 digits	0 – 99 Set according S mode Sect 01
03	Amount tendered compulsory	0 – free 1 – compulsory	1 digit	0 – 1
04	Over Tender prohibited	0 – allowed 1 – prohibited	1 digit	0 – 1
05	Under Tender prohibited	0 – allowed 1 – prohibited	1 digit	0 – 1
06	EFT terminal	0 – no terminal 1 – Veifone (LV) 2 – Hypercom (CH) 3 – Nets 4 – MobilePay (DK) 5 – CPOSWallet (DK)	1 digit	0 – 1
07	Subtotal gradation	(for foreign currency tenders)	3 digits	0.01-1.00
08	Open cash drawer	0 – open 1 – stay closed	1 digit	0 – 1
09	R / A prohibit	0 – R/A enabled 1 – R/A disabled	1 digit	0 – 1
10	P / O prohibit	0 – P / O enabled 1 – P / O disabled	1 digit	0 – 1
11	Negative balance in drawer control	0 – allowed 1 – prohibited	1 digit	0 – 1

Field, ff	Field name	Description	Format	Value range, vv
12	HALO/LALO	High Amount Lock Out: Low Amount Lock Out: 0=No limit. 1=1Digit (0 - 9) 2=2Digits (0 - 99) 3=3Digits (0 - 999) 4=4Digits (0 - 9999) 5=5Digits (0 - 99999) 6=6Digits (0 - 999999) 7=7Digits (0 - 9999999)	2 digits; 1st digit stands for HALO value 2nd digit stands for LALO value	00 – 77
13	Cash back	0 – allowed 1 – prohibited	1 digit	0 – 1

Note: Tender No1 is pre-set for Cash operations.

5.10 MODIFIER (DISCOUNT AND SURCHARGE) DATA (PRG SECTION – 09)

Number of Modifiers (discount / surcharge) – Pre-set by S mode Section 01 - 10

[9] - **[# / NS]** - rr - **[NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

        rr   modifier number
        ff   field number
        vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Name	Modifier name	20 symbols	-
02	Amount	Pre-set amount	8 digits	0.00 – 999999.99
03	Rate	Pre-set percent rate	4 digits	0.00 – 99.99
04	Type	0 – discount 1 – surcharge	1 digit	0 – 1
05	Rate/Amount	0 – amount 1 – percent	1 digit	0 – 1
06	Open/Fixed	0 – open 1 – fixed	1 digit	0 – 1
07	Option	1 – item applicable (applied to the last item registered) 2 – subtotal applicable (applied to the current subtotal) 3 – item or subtotal applicable (used as type 1 or 2 according to the last operation) 4 – total modifier (applied to the entire receipt)	1 digit	1 – 4
08	PLU group	The PLU group to which the modifier will be applied to	2 digits	1-99 0 – all groups

5.11 AUTOMATIC PROMOTION DATA (PRG SECTION – 10)

Number of Automatic promotions – Pre-set by S mode Section 01 - 22

[1] - **[0]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

      rr   automatic promotion number
      ff   field number
      vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Trigger condition	1 – item quantity 2 – subtotal amount	1 digit	1 – 2
02	Modifier	Link modifier number	2 digits	1 – 99
03	Quantity	Sales quantity for promotion activation	1 digit	0.001 - 99999.999 0.000 – always apply
04	Amount	Sales amount for promotion activation	1 digit	0.01 … 9999999.99 0.00 – always apply
05	PLU group effective	PLU group used for promotion application	2 digits	1 – 99 0 – all items

Note: *Before programming the automatic promotions make sure, if all the necessary modifiers are programmed (PRG Section 09).*

5.12 MACHINE NUMBER DATA (PRG SECTION – 12)

[1] - **[2]** - **[# / NS]** - vv - **[CASH]** - **[# / NS]**

      vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	MC Number	ECR number	4 characters	-

5.13 ECR OPTION DATA (PRG SECTION – 13)

[1] - [3] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

       ff   field number
       vv   value within the value range

Field, ff	Field name	Value range, vv	Default value
01	Buzzer audible tone	0 – disabled 1 – enabled	1 – enabled
02	Include Department Report in Financial report	0 – disabled 1 – enabled	0 – disabled
03	Do not zero skip on report	0 – disabled 1 – enabled	0 – disabled
04	Subtotal compulsory	0 – disabled 1 – enabled	0 – disabled
05	Price shift do not stay	0 – transaction 1 – item 2 - manual	1 – item
06	Header print on journal for report only	0 – disabled 1 – enabled	1 – enabled
07	Receipt copy active	0 – disabled 1 – enabled	1 – enabled
08	Reset Receipt number after Z report	0 – disabled 1 – enabled, after Z1(day) 2 – enabled, after Z2(month)	0 – disabled
09	Item modifiers affect PLU and Department report amounts	0 – disabled 1 – enabled	1 – enabled
10	Allow Return in sales receipt	0 – disabled 1 – enabled	0 – disabled
11	Multiple R/A, P/O disable	0 – disabled 1 – enabled	1 – enabled
12	Journal printer PRG and S mode active	0 – disabled 1 – enabled	1 – enabled
13	Receipt cutter active	0 – disabled 1 – full cut 2 – partial cut	2 – partial cut
14	Compact Z report print mode	0 – disabled 1 – enabled	0 – disabled
15	Allow change in foreign currency	0 – disabled 1 – enabled	0 – disabled
16	Clerk system active	0 – disabled 1 – enabled	0 – disabled
17	Receipt post-issue	0 – disabled 1 – enabled	0 – disabled
18	Header text centering	0 – disabled 1 – enabled	0 – disabled
19	Receipt printer Reg mode active	0 – disabled 1 – enabled	1 – enabled
20	Journal printer X mode active	0 – disabled 1 – enabled	1 – enabled
21	Input masking	0 – disabled 1 – enabled	0 – disabled
22	Net Grand total active	0 – disabled 1 – enabled	0 – disabled
23	Subtotal rounding	0 – disabled 1 – enabled	0 – disabled
24	Clerk auto log-out	0 – disabled 1 – enabled	0 – disabled
25	Multiple single item receipts	0 – disabled 1 – enabled	0 – disabled
26	Recalculate taxes on daily Z report	0 – disabled	0 – disabled

		1 – enabled	

Field, ff	Field name	Value range, vv	Default value
27	Compact tax table	0 – disabled 1 – enabled	0 – disabled
28	Print in PRG mode	0 – disabled 1 – enabled	1– enabled
29	Auto daylight saving time change	0 – disabled 1 – enabled	1 – enabled
30	Allow change only in tendered currencies	0 – disabled 1 – enabled	0 – disabled
31	Price input method with decimals	0 – disabled 1 – enabled	0 – disabled
33	Keyboard layout shift	0 – for one entry 1 – until SHIFT 2 – transaction	0 – for one entry
34	Hospitality feature	0 – disabled 1 – enabled	0 – disabled
36	Terminal copy request	0 – disabled 1 – enabled	0 – disabled
37	Track number compulsory	0 – disabled 1 – enabled	0 – disabled
38	Transaction list browsing	0 – disabled 1 – enabled	1 – enabled
39	Transaction normalization	0 – disabled 1 – enabled	0 – disabled
40	Auto pay on I-button log-off	0 – disabled 1 – enabled	0 – disabled
41	Close table on I-button log-off	0 – disabled 1 – enabled	0 – disabled
42	Do not Open drawer if STTL negative	0 – disabled 1 – enabled	0 – disabled
43	12 hour time	0 – disabled 1 – enabled	0 – disabled
44	Enable Z report when Tracks open	0 – disabled 1 – enabled	0 – disabled
45	Supervisor report includes all open Tracks	0 – disabled 1 – enabled	0 – disabled
46	Delete open Tracks on Z report	0 – disabled 1 – enabled	0 – disabled
47	Pulse to Kitchen Printer after order ticket	0 – disabled 1 – enabled	0 – disabled
48	Last sales amount display timeout	0 – unlimited 1 – 30 sec. 2 – 200 sec.	0 - unlimited
49	Reportcompact print mode	0 – disabled 1 – enabled	0 – disabled
51	Cash in drawer declaration	0 – disabled 1 – enabled	0 – disabled

5.14 DATE (PRG SECTION - 14)

[1] - **[4]** - **[# / NS]** - vv - **[CASH]** - **[# / NS]**

        vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Date	DD MM YY or YY MM DD DD : day (01 – 31)	6 digits	010101 – 311299 or

		MM : month (1 – 12) YY : year (00 – 99)		010101 – 991231

5.15 TIME (PRG SECTION – 15)

[1] - **[5]** - **[# / NS]** - vv - **[CASH]** - **[# / NS]**

vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Time	HH MM HH : hour (00 – 23) MM : minutes (00 – 59)	4 digits	0000 – 2359

5.16 FOREIGN CURRENCY DATA (PRG SECTION – 16)

Number of Currencies – Pre-set by S mode Section 01 - 03

[1] - **[6]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

rr   currency number
ff   field number
vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Name		20 characters	
02	Rate	Currency exchange rate	10 digits	0.000001 - 999.999999
03	Decimals	Signs after the comma	1 digit	0 – 3
04	Rate direction	1 – foreign / local 2 – local / foreign	1 digit	1-2

*Note: Currency operations are possible only for finalizing sales and for [RA] and [PO] operations.
Currency exchange deal with ECR is not available.
The main currency is always the local currency.*

5.17 PRINTER OPTION DATA (PRG SECTION – 18)

[1] - **[8]** - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

ff   field number
vv   value within the value range

Field, ff	Field name	Value range, vv	Default value
01	Receipt	1: compressed 2: regular 3: double height	2: regular
02	Journal	1: compressed 2: regular 3: double height	1: compressed 2: regular
05	Header text	1: compressed 2: regular 3: double height	2: regular
06	Footer text	1: compressed 2: regular 3: double height	2: regular
07	ECR S/N	1: compressed 2: regular 3: double height	2: regular
08	Receipt number	1: compressed 2: regular 3: double height	2: regular
09	Sales item	1: compressed 2: regular 3: double height	2: regular
10	Sales total	1: compressed 2: regular 3: double height	2: regular
11	Payment	1: compressed 2: regular 3: double height	2: regular
12	Change	1: compressed 2: regular 3: double height	2: regular
13	Customer number	1: compressed 2: regular 3: double height	2: regular
14	Customer name	1: compressed 2: regular 3: double height	2: regular
15	Order # width	1: regular 2: double width	1: regular

5.18 ITEM PRINT OPTION DATA (PRG SECTION – 19)

[1] - **[9]** - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

        ff   field number
        vv   value within the value range

Field, ff	Field name	Value range, vv	Default value
01	PLU code on receipt	0 – don't print 1 – print	0
02	TAX information on receipt	0 – don't print 1 – print	0
03	Zero price on receipt	0 – don't print 1 – print	1
04	Subtotal on depression	0 – don't print 1 – print	0
05	'No Sale' receipt	0 – don't print 1 – print	1
06	TAX Grand total on report	0 – don't print 1 – print	0
07	Graphical logo active	0 – don't print 1 – print	0
08	FC rates on Financial report	0 – don't print 1 – print	1
09	Sales total amount in 2nd currency	0 – don't print 1 – print	1
10	Quantity on receipt for instore barcode PLU with price	0 – don't print 1 – print	1
11	ECR number	0 – don't print 1 – print	0
12	Taxable amount on receipt	0 – don't print 1 – print	1
13	TAX applicable amount on receipt	0 – don't print 1 – print	1
14	TAX amount on receipt	0 – don't print 1 – print	1
15	FC rate on receipt	0 – don't print 1 – print	0
16	Sales Grand total on Financial report	0 – don't print 1 – print	1
17	TAX information on Financial report	0 – don't print 1 – print	0
18	Statistics details on Financial report	0 – don't print 1 – print	1
19	Negative sales total on Financial report	0 – don't print 1 – print	1
20	PC communication commands on journal	0 – don't print 1 – print	0
21	Graphic logo after paper cut	0 – don't print 1 – print	0
22	Header after paper cut	0 – don't print 1 – print	0
23	Error Correct on financial report	0 – don't print 1 – print	0
24	Negative transaction on report	0 – don't print 1 – print	0
25	Refunds on report	0 – don't print 1 – print	0
26	Modifiers on report	0 – don't print	0

Field, ff	Field name	Value range, vv	Default value
		1 – print	
27	Graphical logotype on reports	0 – don't print 1 – print	0
28	Total barcode (CZ version only)	0 – don't print 1 – print	0
29	Department % analyses	0 – don't print 1 – print	0
30	Item count on receipt	0 – don't print 1 – print	0
31	Rounding difference on receipt	0 – don't print 1 – print	0
32	Rounding difference on report	0 – don't print 1 – print	0
33	Number of receipts on report	0 – don't print 1 – print	0
34	Number of copies on report	0 – don't print 1 – print	0
35	Number of X reports	0 – don't print 1 – print	0
36	Short logo for one item receipt	0 – don't print 1 – print	0
37	Print PLU Barcode	0 – don't print 1 – print	0
39	Order #	0 – don't print 1 – print	0

5.19 PLU PRE-SET KEY SETTING (PRG SECTION – 22)

PLU keys – Pre-set by S mode Section 04 - 19

[2] - **[2]** - **[# / NS]** - [SHIFT] - vv - **[programmable PLU key]** - **[# / NS]**

vv   PLU number

To set PLU code for a key, enter or scan PLU code and press the key for which the desired PLU number has to be set.

Key **[SHIFT]** is used to set two PLU coded for one key.

5.20 RS-232 COM PORT SETTINGS DATA (PRG SECTION – 23)

[2] - **[3]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

rr	RS-232 port number
ff	field number
vv	value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Device type	0 – NC 1 – PC 2 – Barcode scanner 5 – Printer 13 – Printer	1 digit	0 – 22
02	Baud rate	1 - 2400 2 - 4800 3 – 9600 4 – 19200 5 – 38400 6 – 57600 7 – 115200	1 digit	1 – 7
03	Data bits	1 – 8 bits 2 – 7 bits	1 digit	1 – 2
04	Parity	1 – no parity 2 – odd 3 – even	1 digit	1 – 3
05	Stop bits	1 – 1 bit 2 – 2 bits	1 digit	1 – 2
06	Flow control	1 – None 2 – hardware 3 – RTS/CTS	1 digit	1 – 3

Note: Same type of device cannot be assigned to more than one com port.

- **NE-510** RS-232 com port Default settings:

Field, ff	COM 1	COM 2
01	2 – Barcode scanner	1 – PC
02	3 – 9600	5 – 38400
03	1 – 8 bits	1 – 8 bits
04	1 – no parity	2 – odd
05	1 – 1 bit	1 – 1 bit
06	1 - none	1 – none

5.21 PLU PRE-SET KEY DATA (PRG SECTION – 24)

Number of PLU pre-set keys – Pre-set by S mode Section 01 - 11

[2] - **[4]** - **[# / NS]** - rr - **[# / NS]** - vv - **[CASH]** - **[# / NS]**

rr   PLU pre-set key number
vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	PLU number		13 digits	0 - 9999999999999

5.22 PLU PRICE CHANGE (PRG SECTION – 25)

[2] - **[5]** - **[# / NS]** - rr - **[# / NS]** - vv - **[CASH]** - **[# / NS]**

rr   PLU number
vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Price	1st, 2nd and 3rd price level	8 digits	0.00 – 999999.99

Note: *Options for PLU to be selected:*
1) *Enter PLU number, press [NS]*
2) *Use [SUBTOTAL] to move to desired PLU*
3) *Use barcode scanner to scan PLU code*
4) *Use pre-set PLU key.*

Selected Price level n remains until changed to another Price level. There are 3 price levels available.

5.23 CLERK DATA (PRG SECTION – 26)

Number of Clerks – Pre-set by S mode Section 01 - 07

[2] - **[6]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

    rr   clerk number
    ff   field number
    vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Name		20 characters	-
02	Clerk key ID	Clerk i-button pre-set number	12 digits	0 - vvvvvvvvvvvv
03	Password	None – no password	20 digits	None, 0 – 999999...
04	Profile	0 – no profile assigned 1 – 99 profile number	2 digits	0 – 99 Set according S mode Sect 01

5.24 CLERK PROFILE DATA (PRG SECTION – 27)

Number of Clerk profiles – Pre-set by S mode Section 01 - 08

[2] - **[7]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

    rr   clerk profile number
    ff   field number
    vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Name	Name of the clerk profile	20 characters	-
02	S mode operations	0 – disable 1 – enable	1 digit	0 - 1
03	PRG mode operations	0 – disable 1 – enable	1 digit	0 - 1
04	REG mode operations	0 – disable 1 – enable	1 digit	0 - 1
05	X mode operations	0 – disable 1 – enable	1 digit	0 - 1
06	Z mode operations	0 – disable 1 – enable	1 digit	0 - 1
07	Return function	0 – disable 1 – enable	1 digit	0 - 1
08	Void function	0 – disable 1 – enable	1 digit	0 - 1
09	EC function	0 – disable 1 – enable	1 digit	0 - 1
10	Price change function	0 – disable 1 – enable	1 digit	0 - 1
11	Training function	0 – disable 1 – enable	1 digit	0 - 1
12	All tables accessible	0 – disable 1 – enable	1 digit	0 - 1
13	Retail	0 – disable 1 – enable	1 digit	0 - 1
14	Hospitality	0 – disable 1 – enable	1 digit	0 - 1
15	Previous order correction	0 – disable 1 – enable	1 digit	0 - 1
16	Period reports	0 – disable 1 – enable	1 digit	0 - 1
17	Non-turnover invoice	0 – disable 1 – enable	1 digit	0 - 1

5.25 TAX DATA (PRG SECTION – 30)

Number of Taxes - country dependant value.

[3] - **[0]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

> rr   (1 – 5) tax record number
> ff   field number
> vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Rate	Tax rate	4 digits	0 – 99.99
02	Type	1 – VAT/GST 2 – add-on tax	1 digit	1 – 2

5.26 HEADER DATA (PRG SECTION – 31)

Number of Header text lines: 7

[3] - **[1]** - **[# / NS]** - rr **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

> rr   header text line number
> vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01 - 07	Header text line	1st – 7th receipt header line (e.g. company requisites)	32 characters	-

Note: *Empty lines are not printed.*

5.27 FOOTER DATA (PRG SECTION – 32)

Number of Footer text lines : 3

[3] - **[2]** - **[# / NS]** - rr **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

> rr   footer text line number
> vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01 - 03	Footer text line	1st – 3rd receipt footer line (e.g. "Thank you!")	32 characters	-

Note: *Empty lines are not printed.*

5.28 CUSTOMER DATA (PRG SECTION – 34)

Number of Customers – Pre-set by S mode Section 01 - 06

[3] - **[4]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

        rr   customer number
        ff   field number
        vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Customer text, line1	Customer name	20 characters	-
02	Customer text, line2		20 characters	-
03	Customer text, line3		20 characters	-
04	Customer text, line4		20 characters	-
05	Modifier	0 – no modifier assigned 1 – 99 modifier number	2 digits	0 - 99
06	Discount rate	Discount expressed in interest	4 digits	0.00 – 99.99

5.29 KITCHEN PRINTER DATA (PRG SECTION – 40)

Number of Kitchen Printers – Pre-set by S mode Section 01 - 25

[4] - **[0]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

        rr   printer number
        ff   field number
        vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Name	Printer name	20 characters	-
02	Printer type	0 – printer inactive 1 – ECR printer 2 – ETHERNET printer 3 – RS232 printer	1 digit	0-3
05	RS232 port number	RS232 number (see PRG 23)	1 digit	1 - n
06	Print width	Number of characters per line	2 digits	20 – 64 (must be even number)
07	Single item ticket	0 - disable 1 - enable	1 digit	0-1
08	Print item price	0 - disable 1 - enable	1 digit	0-1
09	Print item double width	0 - disable 1 - enable	1 digit	0-1
10	Print item double height	0 - disable 1 - enable	1 digit	0-1

5.30 BARCODES (PRG SECTION – 41)

Barcode table size – Pre-set by S mode Section 01 - 27

[4] - **[1]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

        rr   barcode

| ff | field number |
| vv | value within the value range |

Field, ff	Field name	Description	Format	Value range, vv
01	Type	Barcode type: 0 – PLU 1 – Customer	1 digit	0-1
02	Record number	Data from PRG 03 or PRG 40 PLU or customer number)	16 digit	1-9999999999999999

5.31 PLU BARCODE (PRG SECTION – 42)

Barcode format includes: Fixed data, Variable data, Check digit

A – fixed data
v – variable data
C – price verifier (price check digit)
cd – check digit

[4] - **[2]** - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

| ff | field number |
| vv | value within the value range |

Field, ff	Field name	Description	Format	Value range, vv
01	Barcode format	1 - AAAAAAAAvvvvcd 2 - AAAAAAAvvvvvcd 3 - AAAAAAvvvvvvcd 4 - AAAAAAACvvvvcd 5 - AAAAAACvvvvvcd	1 digit	1 – 5
02	Fixed data		6-8 digits	1 - 99999999
03	Decimals for variable section	0 – 4	1 digit	0 – 4

5.32 TOTAL BARCODE (PRG SECTION – 43)

Barcode format includes: Fixed data, Variable data, Check digit

A – fixed data
v – variable data
C – price verifier (price check digit)
cd – check digit

[4] - **[3]** - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

| ff | field number |
| vv | value within the value range |

Field, ff	Field name	Description	Format	Value range, vv
01	Barcode format	1 - AAAAAAAAvvvvcd 2 - AAAAAAAvvvvvcd 3 - AAAAAAvvvvvvcd	1 digit	1 – 5

		4 - AAAAAAACvvvvcd 5 - AAAAAAACvvvvvcd		
02	Fixed data		6-8 digits	1 - 99999999
03	Decimals for variable section	0 – 4	1 digit	0 – 4

5.33 INSTORE BARCODE FORMAT DATA (PRG SECTION – 44)

Instore barcodes have the following structure:

FF kkkkk vvvvv c
FF kkkkkk vvvv c
FF kkkkc vvvvv c
FF kkkkkc vvvv c

where
FF   – 20...29
kkk..kkk   – article
vvv…vv   – variable part
c   – control digit

[4] - **[4]** - **[# / NS]** - FF - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

FF   barcode flag data (20 – 29)
ff   field number
vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Variable section V type	1 – PLU code 2 – Price 3 – Weight 4 – Price with check digit 5 – Weight with check digit 6 –Customer number	1 digit	1 – 5
02	Digits for variable section	0 – 0 digits 4 – 4 digits 5 – 5 digits	1 digit	0, 4, 5
03	Decimals for variable section	0– vvvv 1 – vvv.v 2 – vv.vv 3 – v.vvv	1 digit	0 – 3

Note: Instore barcodes can be defined for EAN-13 barcodes using flag data 20 – 29.

5.34 REPORT LISTS (PRG SECTION – 45)

Number of report lists – Pre-set by S mode Section 01 - 23

[4] - **[5]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

rr   report list number
ff   field number

vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Report No. 1	Report list code	2 digits	1 – 99
02	Report No. 2	Report list code	2 digits	1 – 99
03	Report No. 3	Report list code	2 digits	1 – 99
04	Report No. 4	Report list code	2 digits	1 – 99
05	Report No. 5	Report list code	2 digits	1 – 99

5.35 UNITS OF MEASURE DATA (PRG SECTION – 46)

Number of measurement units – Pre-set by S mode Section 01 – 24

[4] - **[6]** - **[# / NS]** - rr - **[# / NS]** - vv - **[CASH]** - **[# / NS]**

rr   measurement unit number
vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Unit of measure descriptor		10 characters	-

5.36 PAYMENT CARD RANGE DATA (PRG SECTION – 47)

Number of Payment card types – Pre-set by S mode Section 01 - 13

[4] - **[7]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

rr   card range number
ff   field number
vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Range start, 6 digits	sssssssxxxxxxxxxx	6 digits	000000 – 999999.
02	Range end, 6 digits	eeeeeexxxxxxxxxx	6 digits	000000 – 999999.
03	Card type	1 – loyalty account 2 – payment card	1 digit	1 – 2
04	Tender media number	Select according PRG mode Sect 08 settings	2 digits	Set according S mode Sect 01
05	Default customer number	Providing of client No. entries	16 digits	1-9999....

5.37 PAID OUT DESCRIPTOR DATA (PRG SECTION – 48)

Number of 'Paid out' descriptors – Pre-set by S mode Section 01 - 18

[4] - **[8]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

rr   'Paid-out' descriptor number
ff   field number
vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	PO descriptor	Name of the 'Paid-out' operation (e.g. 'Pension pay-out')	20 characters	-

5.38 RECEIVED ON ACCOUNT DESCRIPTOR DATA (PRG SECTION – 49)

Number of 'Received on account' descriptors – Pre-set by S mode Section 01 - 19

[4] - **[9]** - **[# / NS]** - rr - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

rr   'Received on account' descriptor number
ff   field number
vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	RA descriptor	Name of the 'Received on account' operation (e.g. 'Exchange money')	20 characters	-

5.39 MACRO KEY DATA (PRG SECTION – 51)

Macro key – Pre-set by S mode Section 04

[5] - **[1]** - **[# / NS]** - **[MACROa]** - **[Key 1]** - [Key 2]. . . [Key n] - **[MACROa]** - **[# / NS]**

[MACROa]   the programmed macro key
[KEY 1], [KEY 2] . . . [KEY n]   any combination of keys

- Sequence of max 10 key entries can be pre-set to one macro key
- To be able to record macro key, at first it has to be pre-set in S mode section 01-04 in the preferable keyboard layout.
- The record has to begin and end with the same macro key.
- During the record operation the number of keys left is displayed.
- Macro record sequence cannot include another macro key. If another macro key is pressed, error is displayed.
- After clearing the error with [CLEAR], if the error has resulted during the record procedure, the entered key sequence is cancelled.

5.40 FTP COMMUNICATION DATA (PRG SECTION – 52)

[5] - **[2]** - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

ff   field number
vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Server IP address	FTP Server IP address	12 digits	0 – 255 255 255 255
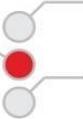
02	User Name	User Name	20 characters	-
03	Password	Password	20 characters	-
05	Mall	Mall code	8 characters	-
06	Tenant	Tenant code	8 characters	-
07	Report file	Daily data report file type: 1 – file type *.csv; 2 – file type *.*nnn* (nnn: daily Z report number)	1 digit	1 – 2

5.41 ETHERNET SET-UP DATA (PRG SECTION – 53)

[5] - [3] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

      ff   field number
      vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	IP address	Cash Register IP address	12 digits	0 – 255 255 255 255
02	Subnet mask		12 digits	0 – 255 255 255 255
03	Gateway		12 digits	0 – 255 255 255 255
04	Local port	Incoming TCP port number	5 digits	0 - 65535

5.42 ON-LINE OPERATION SET-UP DATA (PRG SECTION – 54)

[5] - [4] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

      ff   field number
      vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	IP address	On-line Server IP address	12 digits	0 – 255 255 255 255
02	Server port	On-line Server port	5 digits	0 - 65535
03	Operation	0 – use local data only 1 - Priority local, secondary external 2 – Priority external, secondary local 3 – use external data only	1 digit	0-3
04	Transaction log active	0 – disable 1 – enable	1 digit	0 - 1
05	IP address	Cash Register IP address	12 digits	0 – 255 255 255 255
06	Local port	Incoming TCP port number	5 digits	0 - 65535

5.43 GPRS OPERATION SET-UP DATA (PRG SECTION – 57)

[5] - [4] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

      ff   field number
      vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Access provider	Provider's url	20 characters	-

02	Username		20 characters	-
03	Password		20 characters	-
04	Access period	Connection establishment period (minutes)	3 digits	10 - 120

5.44 ADVANCED PROGRAMMING ACCESS (PRG SECTION – 79)

[7] - **[9]** - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

       ff   field number
       vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Access to ECR programming sections	0 – basic mode 1 – all programming	1 digit	0 - 1
02	Password	Advanced mode access password	20 characters	0 – 999…9
03	Department	0 – disable 1– enable	1 digit	0 - 1
04	PLU	0 – disable 1– enable	1 digit	0 - 1
05	Linked PLU	0 – disable 1– enable	1 digit	0 - 1
06	PLU Group	0 – disable 1– enable	1 digit	0 - 1
07	Tender media	0 – disable 1– enable	1 digit	0 - 1
08	Modifiers	0 – disable 1– enable	1 digit	0 - 1
09	Automatic promotions	0 – disable 1– enable	1 digit	0 - 1
10	ECR Number	0 – disable 1– enable	1 digit	0 - 1
11	Option flags	0 – disable 1– enable	1 digit	0 - 1
12	Date	0 – disable 1– enable	1 digit	0 - 1
13	Time	0 – disable 1– enable	1 digit	0 - 1
14	Currency	0 – disable 1– enable	1 digit	0 - 1
15	Printer options	0 – disable 1– enable	1 digit	0 - 1
16	Item print/no-print	0 – disable 1– enable	1 digit	0 - 1
17	PLU Pre-set keys	0 – disable 1– enable	1 digit	0 - 1
18	COM port settings	0 – disable 1– enable	1 digit	0 - 1
19	PLU Pre-set	0 – disable 1– enable	1 digit	0 - 1
20	PLU Price change	0 – disable 1– enable	1 digit	0 - 1
21	Clerk	0 – disable 1– enable	1 digit	0 - 1
22	Clerk profile	0 – disable 1– enable	1 digit	0 - 1
24	Tax	0 – disable 1– enable	1 digit	0 - 1
25	Text header	0 – disable 1– enable	1 digit	0 - 1
26	Text footer	0 – disable 1– enable	1 digit	0 - 1
27	Customer	0 – disable 1– enable	1 digit	0 - 1
29	Barcodes	0 – disable 1– enable	1 digit	0 - 1
30	PLU barcode	0 – disable 1– enable	1 digit	0 - 1
31	Total barcode	0 – disable 1– enable	1 digit	0 - 1
32	In-store barcode	0 – disable 1– enable	1 digit	0 - 1
33	Report arrangement	0 – disable 1– enable	1 digit	0 - 1
34	Measurement unit	0 – disable 1– enable	1 digit	0 - 1
35	Card range	0 – disable 1– enable	1 digit	0 - 1
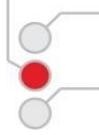
Field, ff	Field name	Description	Format	Value range, vv
36	Paid out	0 – disable 1– enable	1 digit	0 - 1
37	Received On Account	0 – disable 1– enable	1 digit	0 - 1
39	Macro key	0 – disable 1– enable	1 digit	0 - 1
40	Ethernet	0 – disable 1– enable	1 digit	0 - 1
45	On-line	0 – disable 1– enable	1 digit	0 - 1
46	PRG data print	0 – disable 1– enable	1 digit	0 - 1
47	Service reminder	0 – disable 1– enable	1 digit	0 - 1

5.45 PRG MODE DATA PRINT (PRG SECTION – 90)

[9] - [0] - [# / NS] - ss - [X / TIME] – [1] - [CASH] - [# / NS]

> ss   PRG section number
> 1   print command

Note: See PRG section numbers in „4.1. PRG mode sections'

Example: Print PLU data.

> PRG mode.
> **[9] [0] [# / NS]**   enter section
> **[1] [X / TIME]**   select field 1 (PLU data)
> **[1] [CASH]**   print PLU data
> **[# / NS]**   exit section

Note: To interrupt print out, press [CLEAR] key during printing.

5.46 SERVICE REMINDER (PRG SECTION – 95)

[9] - [5] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

> ff   field number
> vv   value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Reminder display text		20 characters	-
02	Reminder display text start date	DD MM YY or YY MM DD DD : day (01 – 31) MM : month (1 – 12) YY : year (00 – 99)	6 digits	010101 – 311299 or 010101 – 991231
03	Reminder text for print		20 characters	
04	Reminder text for print start date	DD MM YY or YY MM DD DD : day (01 – 31) MM : month (1 – 12) YY : year (00 – 99)	6 digits	010101 – 311299 or 010101 – 991231

5.47 SCHEDULED TAX CHANGE (HU VERSION ONLY) (PRG SECTION – 96)

[9] - **[6]** - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**

	ff	field number
	vv	value within the value range

Field, ff	Field name	Description	Format	Value range, vv
01	Valid date	TAX change pre-set date	YYYY.MM.DD	-
02	Rate, TAX A	New rate for TAX A	4 digits	0 - 99.99
03	Rate, TAX B	New rate for TAX B	4 digits	0 - 99.99
04	Rate, TAX C	New rate for TAX C	4 digits	0 - 99.99

[9] - **[6]** - **[# / NS]** - ff - **[X / TIME]** - vv - **[CASH]** - **[# / NS]**