

**CM 811/812**

Operating Instructions  
Programming Instructions



OLYMPIA 

SINCE 1903

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## Declaration of Conformity



**CM 811/812**

- (GB)** The manufacturer hereby declares that the equipment complies with the stipulations defined in the following guidelines and standards:
- (D)** Der Hersteller erklärt hiermit, dass das Gerät mit den Bestimmungen der Richtlinien und Normen übereinstimmt:
- (F)** Le fabricant déclare par la présente que l'appareil est conforme aux règlements et normes en vigueur:
- (E)** Por medio de la presente, el fabricante declara que este aparato está conforme a lo dispuesto en las directivas y normas vigentes:
- (NL)** De fabrikant verklaart hierbij dat het apparaat voldoet aan de bepalingen in de richtlijnen en normen:
- (P)** Pelo presente o fabricante declara que o dispositivo está de acordo com as determinações das directrizes e das normas:
- (S)** Tillverkaren förklarar härmed att apparaten överensstämmer med bestämmelserna i följande direktiv och normer:

73/23/EEC	EN 60950: 2000
89/336/EEC	EN 55022: 09.98+A1 :2000+A2 :2003
	EN 50024: 09.98+A1 :10 :2001+A2 :01 :2003
	EN 61000-3-2: 2000
	EN 61000-3-3: 1995+A 1 :2001

Olympia Business Systems

August 2005

Heinz Prygoda

Managing Director

## Congratulations!

Dear customer:

We are happy that you decided on purchasing the Olympia CM 811/812 Cash Register.

With the CM 811/812, you have obtained a high-quality cash register that uses the newest technologies to best satisfy your needs.

Your new cash register can register up to 200 items, 16 product groups, 8 operators with password and 4 foreign currencies. Among other things, it is characterized by an electronic journal with 3,000 lines and an alphanumeric printer. You can choose between 7 languages; the cash register comes with interchangeable, multi-language key templates. The cash register also has a calculator feature.

Please read the operating instructions to make sure that the cash register functions optimally.

We hope you enjoy using your machine!

Kindest Regards

Your Olympia Business Systems

Vertriebs GmbH

**Olympia Business Systems Vertriebs GmbH**

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**Germany**

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This operating instruction manual serves purely to provide information. Its content is not part of any contract for sale. All the data specified relates to nominal values. The equipment and options described may differ according to different country requirements. We reserve the rights to make technical modifications and change the contents without notification.

## Intended Use

This cash register is intended exclusively for processing cash register business indoors.  
Any other use is considered unintended use.

## General Information / Safety Notes

- Make sure that the power supply matches that specified on the rating plate located on the back of the cash register.
- This cash register is a highly sophisticated piece of equipment. Never attempt to repair it yourself. If repairs should become necessary, please bring the cash register to an authorised service centre or the sales outlet.
- Never insert metallic objects, such as a screwdriver, paper clip etc., into the cash register. This could damage the cash register and also exposes you to risk of electric shock.
- Always switch the cash register off when it is no longer in use.
- Clean any dust from the cash register by wiping it gently with a dry cloth. Never use water or solvents, such as paint thinner, alcohol etc., to clean the cash register.
- To disconnect the power supply fully, disconnect the plug from the power socket.
- Never expose the cash register to extreme temperatures.
- Keep all the transport locks in a safe place for future use. The transport locks must be reinstalled for any future transportation of the cash register.

## Transport Locks

Before the cash register can be used, remove any transport locks installed and store them for future use. **Important transport information:** In the event of any transport damage, the machine must be returned in the packaging together with the operating instructions and any accessories.

## Connecting to the Power Supply

Before connecting the cash register to the power supply, please check that the voltage and frequency specifications stipulated on the rating plate match the local power supply.

**Safety note:** The power outlet must be near the cash register and easily accessible.

This means that the cash register can be quickly disconnected from the power supply in an emergency.

**Note:** All data is retained when the power supply is disconnected. The batteries ensure the data is retained for approx. 2 months after the cash register has been disconnected from the power supply.

## Printer Mechanism

Attention: To guarantee long, trouble-free operation, observe the following:

- Never
  - print when paper is not installed!
  - pull out the paper while the printer is printing!
  - use poor quality paper!
  - insert used rolls of paper!
  - tamper with the printer using hard objects or move the drive by hand!
- Pay attention to the markings indicating the end of the paper roll. Change the paper roll immediately.
- Have the cash register / printer mechanism serviced regularly by an authorised service centre.

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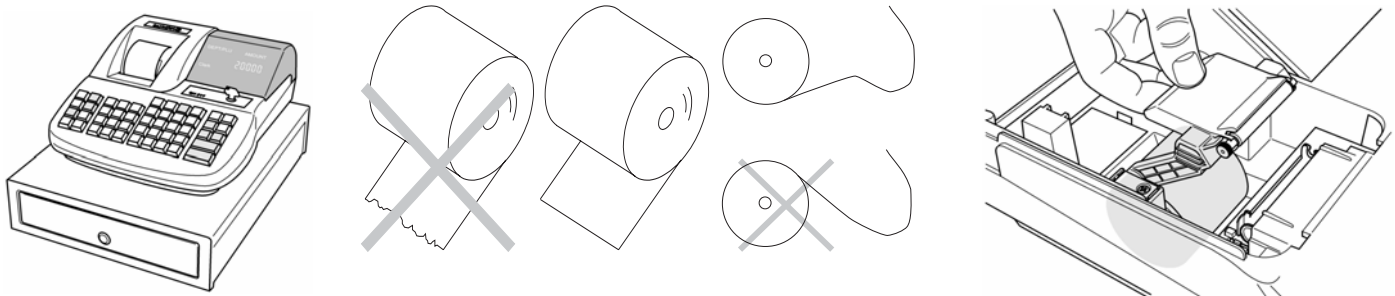
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## 1 Basic Features

Department	16
PLU	200
Clerk	8 clerks
Tax	Value-added tax mode (4 VAT rates)
Payment	Cash, check, card
Management report	X1/Z1 financial report X2/Z2 monthly report PLU report X/Z clerk report Training report X/Z full report for electronic journal (EJ) <b>(Note:</b> The electronic journal is hereinafter referred to as "EJ".) X/Z oldest report for EJ X/Z latest report for EJ X/Z daily report for EJ
Display	ALPHA & numeric (union-jack) display (10 digits)
Printer	SII LTPZ 225 Type of printer: Line thermal printer Print speed: 5.2 lines per second Note: [DEPT 01 1.00] data & 25°C Number of columns: 24 columns Paper width: 57.5 ± 0.5 mm MCTF: About 6150000 Lines
Programmability	Date Time Tax rate VAT (0 – 99.999 %) Department Price (max. 7 digits) Caption Taxable Single item cash Dump report PLU Price (max. 7 digits) Caption Link DEPT Sub-department Dump report -% Rate (0 – 99.99 %) FC Caption Conversion factor

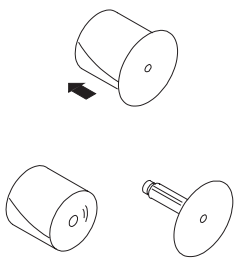
## 2 Inserting a Paper Roll

Remove the printer cover. Pivot the paper transport unit up. Insert a thermal paper roll (57 mm in width and max. 70 mm in diameter). Draw the leading edge of the paper over the tear-off edge and pivot the paper transport unit down, locking it in place. Depending on the required use (bill or journal), either tear off the paper at the tear-off edge of the printer mechanism or feed the paper onto the paper reel. Replace the printer cover.



## 3 Paper Reel

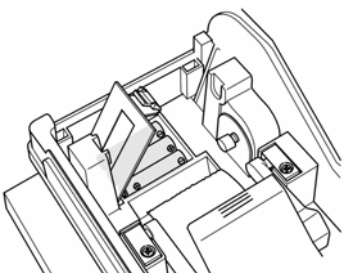
The paper reel is required when the receipts need be rolled up on it.



1. Open the printer cover.
2. Open the battery compartment cover (black flap) in the paper compartment.
3. Thread the end of the journal paper into the slit in the paper reel.
4. Insert the paper reel into the reel guides.
5. To remove the journal paper after it has been rolled up on the reel, remove the paper reel and pull the journal roll off.
6. Reinsert the paper reel.
7. Close the printer cover.

## 4 Inserting batteries

**Note:** Insert batteries to ensure that all data is retained in the event of a power failure.








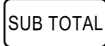








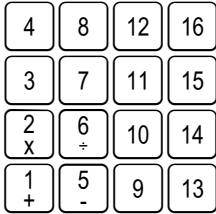







1. Open the printer cover.
2. Open the battery compartment cover (black flap) in the paper compartment.
3. Insert 3 AA batteries.  
Important: Pay attention to the correct positioning of the batteries (refer to the diagram and/or the markings on the cash register).
4. Close the battery compartment cover.
5. Close the printer cover.
6. To ensure that no data is lost, replace the batteries once a year while the cash register is switched on.



## 5 Basic Features and Functions

### 5.1 Keyboard

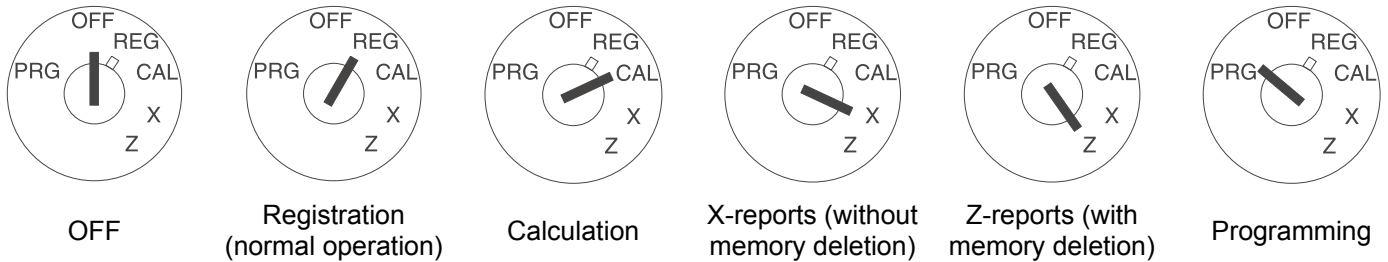
**Note:** The electronic journal is referred to as “EJ” below.

	The Amt Tend/TOTAL key is used for a cash tender transaction.
	The Clear key will clear an entry made on the numeric keypad or Qty/Time key before it is finalized on a department or function key. The Clear key is also used to clear error conditions.
	Depressing the FEED key will advance the receipt or journal paper one line, or continuously until the key is released.
	The Ref/- key is used to subtract an amount from the sale total. The financial report records the (-) key total. As with the Ref/- key, this is used for refund operations. The financial report records the refund total.
	The -% key is used to subtract a percentage from the sale total. The financial report records the -% key total.
	Pressing the Subtotal key will display the sale total.
	The PAID OUT key (PO) is used to remove media from the cash drawer. It carries its own total on the financial report.
	The RECEIVED ON ACCOUNT key (RA) is used to record a media payment or loan to the cash drawer. The financial report records the total received on account.
	The Forreign Currency key (FC) is used for FC conversion operations.
	The Check key is used for check tender transactions.
	The Card key is used for card tender transactions.
	<p>Numerical keys: The numerical keys are used to input numbers. Each key is assigned several characters in order to program a caption in PRG.</p> <p>The DECIMAL POINT key is used to enter a decimal point.</p>
	Price look-up feature (200 types).
	The X/Time key is used to multiply department or (-) key entries. Inform remaining buffers for EJ.
	DEPARTMENT key (DEPT) is used to select non-taxable sales at the pre-programmed tax rate.
	#/NO SALE key (#/NS) is used as a non-add number key and a non-sale key.
	The Clerk key is used to assign a clerk.
	The Void key is used to erase incorrect entry operations. The financial report records the void total.
	The EC key is used for error correction operations. The financial report records the void total.
	The Receipt ON/OFF key is used to saving paper or not. Press it again to turn receipt-printing back on.
	The Receipt Issue key is used to post receipt or multiple receipt. (Multiple receipt is useful for changing the rolle of paper)
	The HELP key provides assistance on basic programming operations.

## 5.2 Key-Operated Control Switch

- OFF The System is inoperable.
- REG Registration mode. Receipt ON/OFF does not work in journal mode (as programmable).
- CAL Calculation machine mode.
- X The X position is used for reading the financial report.
- Z The Z position is used to read the financial report.
- PRG The PRG position is used for all programming.

The key must be set to position **REG** for normal operation (registration).



**Note:** Loss of data and jamming of the cash register are possible in Z and PRG operating modes. Only use these modes when you are familiar with programming and operating the cash register.


## 6 Keypad assignment

FEED	EC	7 @	8 ABC	9 DEF	CLERK	RECEIPT ON/OFF	VOID	HELP	RECEIPT ISSUE	FC
RA	REF/-	4 GHI	5 JKL	6 MNO	4	8	12	16	-%	#/NS
PO	PLU	1 PQRS	2 TUV	3 WXYZ	3	7	11	15	CHECK	CARD
CLEAR	X/TIME DW	0 "#	00 SP/ENT	. DEL	2 X	6 ÷	10	14	SUB TOTAL	
					1 +	5 -	9	13	CASH TOTAL =	


## 7 Printing the Help List



Set the key to REG. Press the  key.

Select the number in the help list, enter it and confirm the entry by pressing the  key.

Help list for CM 811/812

Enter the help no. and press the  key.








Help no.	Function
01	Select language
02	Program date (DD/MM/YY)
03	Program time (24-hour clock)
04	Program logo
05	Program tax
06	Program departments
07	Program PLU
08	Print financial report
09	Print text table


Example: Activate the language table

Help no.                      Confirm by pressing





01: Select language		
110		ENGLISH
111		FRENCH
112		GERMAN
113		SPANISH
114		DUTCH
115		PORTUGUESE
116		SWEDISH

To print the table, press the  key.



To **change the settings**, set the key to position PRG.

Select the number from the list illustrated above, enter it and confirm the entry by pressing the  key.

Example: Change the language to ENGLISH

Language no.                      Confirm entry by pressing



Help list for CM 811/812	
ENTER NUMBER THEN PRESS <HELP> KEY.	
01	SELECT THE LANGUAGE
02	DATE PROGRAMMING DD/MM/YY
03	TIME PROGRAMMING 24 HOURS
04	LOGO PROGRAMMING
05	TAX PROGRAMMING
06	DEPARTMENT PROGRAMMING
07	PLU PROGRAMMING
08	FINANCIAL REPORT PRINTOUT
09	TEXT TABLE

Each setting method can be checked by specifying the number printed above.

**Select Language**

(01) –[HELP]

01:SELECT THE LANGUAGE

110 <RA> ENGLISH  
 111 <RA> FRENCH  
 112 <RA> GERMAN  
 113 <RA> SPANISH  
 114 <RA> DUTCH  
 115 <RA> PORTUGUESE  
 116 <RA> SWEDISH

**Date setting**

(02) –[HELP]

02:DATE PROGRAMMING

ENTER DDMMYY  
 PRESS <#/NS> KEY.

**Time setting**

(03) –[HELP]

03:TIME PROGRAMMING

ENTER HHMM  
 PRESS <QTY/TIME> KEY.

**LOGO Message setting**

(04) –[HELP]

04:LOGO PROGRAMMING

PRESS <#/NS> KEY 4 TIMES  
 SEE TEXT TABLE. PRESS  
 <TOTAL> KEY for EXITING.

**Tax Rate setting**

(05) –[HELP]

05:TAX PROGRAMMING

ENTER TAX#(1 – 4)  
 PRESS <CARD> KEY.  
 ENTER TAX RATE  
 (0.000 – 99.999)  
 PRESS <TOTAL> KEY.

**Department setting**

(06) –[HELP]

06:DEPARTMENT PROGRAMMING

----- TEXT -----  
 PRESS <#/NS> KEY 2 TIMES  
 SEE TEXT TABLE.  
 PRESS <TOTAL> KEY for  
 EXITING.

-- STATUS & PRICE ---  
 ENTER TYPE ( 0 or 1 )  
 0:NORMAL,1:SINGLE ITEM  
 ENTER TAXBLE (00 – 04)  
 PRESS <CHECK> KEY.  
 ENTER PRICE(0 – 9999999)  
 PRESS <DEPARTMENT> KEY



### 8.2 Clerk Security # Programming



Set the key to PRG

Press **4** (GHI) **6 times**

Press **CASH TOTAL =**

Enter a number between 1 and 8 as the clerk code.

Then enter the 3-digit clerk security code and also confirm with **CLERK**.

Finish programming by pressing **CLEAR**.

Example: Programming security number 456 for clerk 1.

Input	Display	Confirm by pressing
<b>4</b> (GHI) <b>4</b> (GHI) <b>4</b> (GHI) <b>4</b> (GHI) <b>4</b> (GHI) <b>4</b> (GHI)	44444.44	<b>CASH TOTAL =</b>
<b>1</b> (PQRS)	1	
<b>4</b> (GHI) <b>5</b> (JKL) <b>6</b> (MNO)	11.55	<b>CLERK</b>
		<b>CLEAR</b>

The following message appears on the receipt:

\* NON PRINT

### 8.3 Clerk System Programming

**Note:** If "CLERK SYSTEM INACTIVE" in clerk system programming was selected, ECR operates without entering clerk # and its 3 digit security #. Under this mode, display shows "1" as clerk # and prints "1" as clerk # on receipts, journals and reports. All of sales will be put together into clerk# 1 and clerk report covers only sales for clerk # 1.



Set the key to PRG

Press **4** (GHI) **5 times**

The press the **0** ("#") key to deactivate the clerk system (default setting) or the **1** (PQRS) key to activate the clerk system.

Finish programming by pressing the **CASH TOTAL =** key.

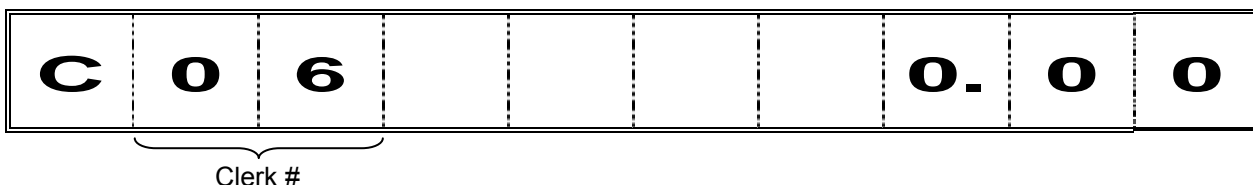
Example: Activating the clerk system.

Input	Display	Confirm by pressing
<b>4</b> (GHI) <b>4</b> (GHI) <b>4</b> (GHI) <b>4</b> (GHI) <b>4</b> (GHI)	4444.44	
<b>1</b> (PQRS)	1	<b>CASH TOTAL =</b>

### 8.4 Clerk # on display

Clerk number displays when a clerk code is entered in REG mode and when clerk system is in operation.

Example: Clerk 6



\* To modify the clerk code currently assigned, enter a new clerk code.

## 9 Printing the system settings

The settings in respect of system options, discount, foreign currency as well as Z-report and clerk password.



Set the key to PRG

Press **9 DEF** 6 times

Confirm by pressing **CASH TOTAL =**

Input

**9 DEF 9 DEF 9 DEF 9 DEF 9 DEF**

Display

9999.99

Confirm by pressing

**CASH TOTAL =**

## 10 Programming the date



Set the key to PRG

Enter the date as 6 digits (DDMMYY)

Confirm by pressing **#/NS**

Example: 1<sup>st</sup> of January 2006

Input

**0 # 1 PQRS 0 # 1 PQRS 0 # 6 MNO**

Display

01.01.06

Confirm by pressing

**#/NS**

## 11 Programming the time



Set the key to PRG

Enter the time as 4 digits (hhmm)

Confirm by pressing **X/TIME DW**

Example: 9:30 a.m.

Input

**0 # 9 DEF 3 WXYZ 0 #**

Display

9.30

Confirm by pressing

**X/TIME DW**

## 12 Programming tax rates

A maximum of four different tax rates can be programmed.



Set the key to PRG

The entry of a tax rate (1,2,3 or 4, corresponds to storage location no.)

Confirm by pressing **CARD**

Enter the tax rate (x 1000)

Confirm by pressing **CASH TOTAL =**

Example: 16% as tax rate 1

Input

**1 PQRS**

Display

0.01

Confirm by pressing

**CARD**

**1 PQRS 6 MNO 0 # 0 # 0 #**

Display

160.00

Confirm by pressing

**CASH TOTAL =**



Set the key to PRG

Enter the second tax rate

Confirm by pressing **CARD**

Enter the tax rate (x 1000)

Confirm by pressing **CASH TOTAL =**

Example: 7% as tax rate 2

Input

**2 TUV**

Display

0.02

Confirm by pressing

**CARD**

**7 @ 0 # 0 # 0 #**

Display

70.00

Confirm by pressing

**CASH TOTAL =**

### 13 -% Key Programming

You can enter a discount value from 0.00 bis 99.99%.

Example: 10% Discount

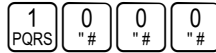


Set the key to PRG

Enter the discount using 4 digits. (10 % = 10,00 %)

Confirm by pressing

Input



Display



Confirm by pressing



**Note:** The attribute of -% in the REG mode is identical with the attribute of the item (Dept or PLU) registered just before. When -% is used after Subtotal, it attributes to all the items registered by then.

### 14 Programming Text

Set the key to PRG.

Press the  button to toggle between the different programming modes.



Input	Display	Meaning
		Normal programming mode
<input type="button" value="#/NS"/>		PLU caption programming mode
<input type="button" value="#/NS"/>		Department caption programming mode
<input type="button" value="#/NS"/>		Clerk caption programming mode
<input type="button" value="#/NS"/>		Header message programming mode
<input type="button" value="#/NS"/>		Foreign currency caption programming mode
<input type="button" value="#/NS"/>		Footer message programming mode
<input type="button" value="#/NS"/>		Return to normal programming mode

**Note:** Even while in the process of programming, you can exit programming by pressing the  key.



## 15 Selecting a Caption Number

After a programming mode has been selected, the individual storage locations can be selected using the plus and minus button:



Input	Display	Meaning
#/NS	P 001	Normal programming mode
1 +	P 002	Ascending PLU numbers
1 +	P 003	
5 -	P 002	Descending PLU number

Programming Mode:	PLU	Department	Clerk	Header	Foreign Currency	Footer
Area of caption number per classification of caption:	01 - 200	01 - 16	01 - 08	01 - 04	01 - 04	01 - 03



## 16 Entering the Character Code

### 16.1 Character Keys

Numeric keys work like character keys in programming mode. Each numeric key has several character codes. These are selected by depressing the same key repeatedly. When the code reaches the end of list of codes, the selected code goes to first character code again. The choice is cyclical.

OFFSET Key	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7
0	0	!	"	#	\$	%	&	'	(	)	*	+	,	-	.	/	:	;	<	=	>	?						
1	P	Q	R	S	p	q	r	s	1	Ş	Ş	Ş	p	ş	ş													
2	T	U	V	t	u	v	2	Ú	Û	Ü	Ù	Û	ü	ü	ü	ü	ü	ú	ú									
3	W	X	Y	Z	w	x	y	z	3	Ý	Ž	Ž	ž	ž														
4	G	H	I	g	h	i	4	Ġ	Ġ	í	í	î	ï	ġ	í	ì												
5	J	K	L	j	k	l	5	Ł	ł																			
6	M	N	O	m	n	o	6	Ń	Ń	Ó	ó	Ô	ô	Õ	õ	ñ	ń	ó	õ	õ	ó	ô	ö	ò				
7	7	@	[	\	]	^	_	{	!	}	~	ı	§	→	←	Σ	∅	Æ	£	¨	¿	ı	ıı	ııı	「	」	↑	·
8	A	B	C	a	b	c	8	Á	À	À	À	À	À	Ä	β	C	Ć	Ç	á	ą	à	â	ä	c	ć			
9	D	E	F	d	e	f	9	Đ	É	È	É	È	Ê	é	e	è	é	ê	ë									

You can print the complete character table:

To do this, set the key-operated switch to REG and press the  and  keys.

## 16.2 Control Key for character inputting

**Key**      **Meaning**



Double Width Character selected. The character is printed in bold face.



Space Code Entry using. And for setting the selected character by repeatedly pressing the same input key.



Deleting character code entry like back-space of PC.

**Note:** has two functions for caption setting. One is SPACE code entry. The other is ENTER as fixing to previous character entry. Example:



Input	Display	Meaning
	<input type="text" value="A"/>	Selecting Character
	<input type="text" value="A"/>	ENTER as fix "A" character and cursor moving
	<input type="text" value="  A"/>	Enter as "SPACE" and cursor moving



Input	Display	Meaning
	<input type="text" value="AA"/>	Selecting Character
	<input type="text" value="AA"/>	Programmed to caption as "AA" that has one space code.
	<input type="text" value="A"/>	OFFSET Value for the character key. Example:
	<input type="text" value="J"/>	
	<input type="text" value="K"/>	
	<input type="text" value="L"/>	
	<input type="text" value="j"/>	
	<input type="text" value="k"/>	
	<input type="text" value="l"/>	
	<input type="text" value="5"/>	
	<input type="text" value="ł"/>	
	<input type="text" value="ł"/>	
	<input type="text" value="J"/>	

### 16.3 Ex: PLU001 caption presetting.

Example: PLU #001 = Apple



Input	Display	Meaning
	0.00	Normal Programming Mode
#/NS	P 001	PLU #001 Caption Programming Mode
8 ABC	0 A	
1 PQRS	0 AP	
00 SP/ENT	0 AP	
1 PQRS	0 APP	
5 JKL	0 APPU	
5 JKL	1 APPK	
5 JKL	2 APPL	
9 DEF	0 APPLI	
9 DEF	1 APPLE	
CHECK	P 002	Set PLU#001 caption. Caption number will be accumulated by one after presetting. "SPACE" can be applied in case of

Programming Mode:	PLU	Department	Clerk	Header	Foreign Currency	Footer
Maximum number of character digits per classification:	12	12	12	24	10	24

### 17 Programming departments (DEP)

Example: The name of DEP1 is "Test"



#### Step 1: Text input

Set the key to PRG

Press #/NS twice

Text input for DEP name

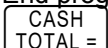
Confirm by pressing CHECK

Continue with text input for other departments

In order to select a DEP number directly:

Press the DEP key  $\left[ \begin{smallmatrix} 1 \\ + \end{smallmatrix} \right]$  to scroll upwards or  $\left[ \begin{smallmatrix} 5 \\ - \end{smallmatrix} \right]$  to scroll downwards.

End programming by pressing



Input	Display	Confirm by pressing
#/NS #/NS	001	
1 x $\left[ \begin{smallmatrix} 2 \\ TUV \end{smallmatrix} \right]$	T	
2 x $\left[ \begin{smallmatrix} 9 \\ DEF \end{smallmatrix} \right]$	TE	
4 x $\left[ \begin{smallmatrix} 1 \\ PQRS \end{smallmatrix} \right]$	TEST	
1 x $\left[ \begin{smallmatrix} 2 \\ TUV \end{smallmatrix} \right]$	TEST	CHECK
		CASH TOTAL =

after entering the last department

Example 1: DEP1 is an itemised department at tax rate 1 (16%) and without a fixed price.



**Step 2: Define status**

Set the key to PRG

Enter status S1 and S2 as three digits

Enter fixed price or free pricing

Assign settings to DEP1 by

pressing

Input

Display

0.01

Confirm by pressing

0.00

**Status S1:** 0 = itemised department, 1 = single item department

**Status S2:** 00 = no tax, 01 = tax rate 1, 02 = tax rate 2, 03 = tax rate 3, 04 = tax rate 4  
(For information on tax rates, refer to Section "Programming tax rates")

000 = DEP operates without fixed price (free pricing); alternatively: enter the fixed price

Example 2: DEP1 is an itemised department at tax rate 2 (7%) and without a fixed price.



**Step 2: Define status**

Set the key to PRG

Enter status S1 and S2 as three digits. Enter fixed price or free pricing

Assign settings to DEP2 by

pressing

Input

Display

0.02

Confirm by pressing

0.00



**Step 3: Printing**

To print a list with the programmed departments

Press 6 times

and conclude by pressing

Input

Display

8888.88

Confirm by pressing

## 18 Department Dump Report

You can print the department dump report as follows:



Set the key to PRG

Press the key six times.

Confirm by pressing

Input

Display

8888.88

Confirm by pressing

CLERK 1	PM12-27
09-01-2006	0001
DEPT01	1.00T1
P DEPARTMENT	0.01
DEPT02	2.00T2
P DEPARTMENT	0.02
DEPT03	3.00T3
P DEPARTMENT	0.03
DEPT04	1.00T4
P DEPARTMENT	0.04

DEPT05	5.00
P DEPARTMENT	0.00
DEPT06	6.00T1
P DEPARTMENT	0.01
DEPT07	7.00T2
P DEPARTMENT	0.02
DEPT08	8.00T3
P DEPARTMENT	0.03
DEPT09	9.00T4
P DEPARTMENT	0.04
DEPT10	10.00
P DEPARTMENT	1.00

DEPT11	0.00
P DEPARTMENT	0.00
DEPT12	0.00
P DEPARTMENT	0.00
DEPT13	0.00
P DEPARTMENT	0.00
DEPT14	0.00
P DEPARTMENT	0.00
DEPT15	0.00
P DEPARTMENT	0.00
DEPT16	0.00
P DEPARTMENT	0.00

## 19 Programming Price Look Up (PLU)

PLUs are programmed in 3 steps:


- Enter the PLU text for all PLUs.
- Enter the price and department assignment for all PLUs.
- Enter the status of the PLU and department assignment for all PLUs.  
(Not necessary if the PLU is operated with a fixed price.)

Example: The name of PLU123 is "Test".



### 1. PLU text:



Set the key to PRG

Press  once

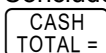
Enter the text for the first PLU using the 10-key keypad (max. 12 characters)







Proceed in the same way for the next PLU.

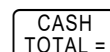
In order to select a PLU number directly:

Press the DEP key  to scroll upwards to the DEP key  to scroll downwards.

Conclude text input by pressing



Input	Display	Confirm by pressing
	P001	
1 x 	T	
2 x 	TE	
4 x 	TESS	
1 x 	TEST	




Example: PLU123 for 2.50 EUR belongs to department 1.




### 2. PLU price and assignment:


Set the key to PRG











Press 

Enter the required PLU number, confirm by pressing 

Now enter the PLU fixed price and the department assignment by pressing the department key 

The next PLU automatically appears in the display. Proceed in the same way.

Conclude input by pressing 

Input	Display	Confirm by pressing
	P001 0.00	
  	P123	
  	2.50	
	P124 0.00	

Example: PLU123 / DEP1 with free pricing permitted.



### 3. PLU status:

**Note: This step is only necessary for PLUs which operate with free pricing.**

Status 0 = fixed price






Status 1 = free pricing

Set the key to PRG

Press 

Enter the PLU no. to be programmed and confirm by pressing



Input	Display	Confirm by pressing
	P001 0.00	
  	P123 2.50	

Enter the PLU status, assign by pressing the corresponding department key and confirm.  
The next PLU automatically appears in the display. Proceed in the same way.



0.01



P 124 0.00

Conclude input by pressing



A list of the programmed PLUs can be printed out.



Set the key to PRG

Send the print job by pressing

Confirm by pressing



## 20 PLU Dump Report

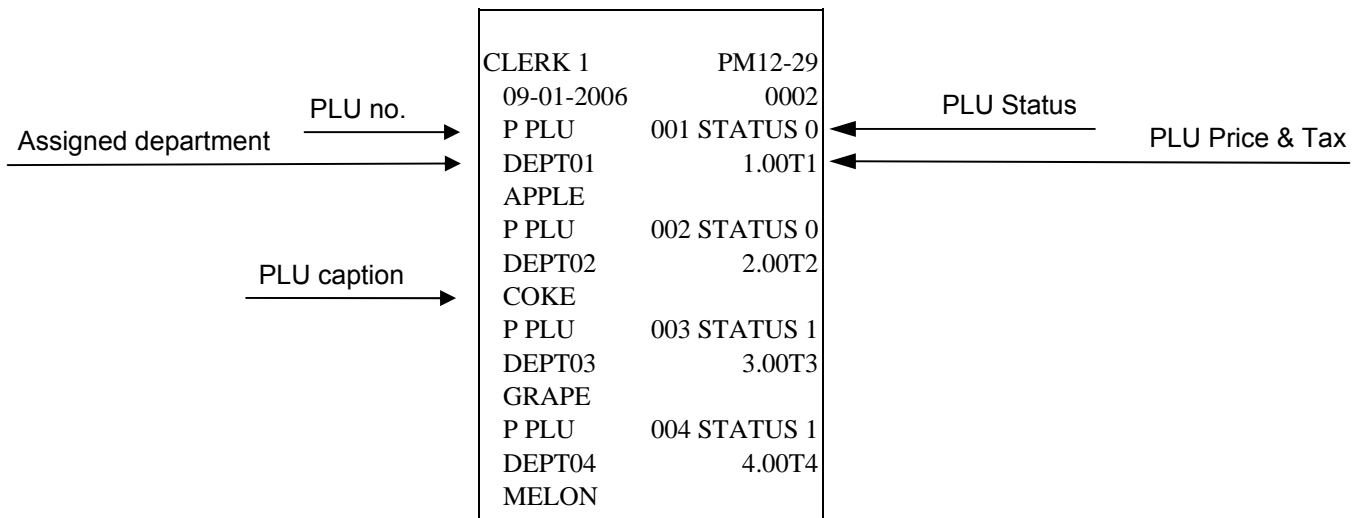
A list of the programmed PLUs can be printed out.



Set the key to PRG

Press the key.

Input



## 21 Programming foreign currencies

A maximum of 4 foreign currencies can be programmed.

The following information must be entered for the programming process:

- Foreign currency identification: 1,2,3 or 4
- Decimal places for the exchange rate (EXP): 0 to 8 decimal places are possible
- Decimal places for the foreign currency (D.P.): 0 to 3 decimal places are possible
- Exchange rate (RATE): 6-digit entry from 000001 to 999999

The digits for this setting are programmed in a single sequence without any spaces or intermediate characters between them: <digit for foreign currency> <digit for EXP> <digit for D.P.> <digits for RATE>



Set the key to PRG  
 Foreign currency 1 = 1  
 EXP = 5  
 D.P. = 2  
 RATE = 076494

Example: EURO to US Dollars (1 USD = 0.76494 EURO) as foreign currency no. 1

Input	Display	Confirm by pressing
<input type="button" value="1"/> <input type="button" value="5"/> <input type="button" value="2"/> <input type="button" value="0"/> <input type="button" value="7"/> <input type="button" value="6"/> <input type="button" value="4"/> <input type="button" value="9"/> <input type="button" value="4"/>	152076494	<input type="button" value="SUB TOTAL"/>

## 22 Programming system options

The basic program of the cash register is stored in the system options.

Example: Change the time display to the 24-hour format



Set the key to PRG  
 The system options are entered as 2 or 3 digits.  
 The input is confirmed by pressing

Input	Display	Confirm by pressing
<input type="button" value="4"/> <input type="button" value="0"/>	40	<input type="button" value="RA"/>

**Note:** The standard settings appear in bold print.

System option no.	Status no.	Setting
1	0	Decimal point position: 0 (no point)
	1	Decimal point position: 0.0
	2	<b>Decimal point position: 0.00</b>
	3	Decimal point position: 0.000
2		(reserved)
3	1	Net price (exclusive of tax)
	2	<b>Gross price (including tax)</b>
4	0	<b>Time: 24-hour format</b>
	1	Time: 12-hour format *
5	0	Print X/Z-report with logo: No print
	1	<b>Print X/Z-report with logo: Print</b>
6		(reserved)
7	0	Date format: Month-Day-Year
	1	<b>Date format: Day-Month-Year</b>
8		(reserved)
9		(reserved)
10		(reserved)
11	0	<b>Language: English</b>
	1	Language: FRENCH
	2	Language: GERMAN
	3	Language: SPANISH
	4	Language: DUTCH
	5	Language: PORTUGUESE
12	0	Zero price of a PLU or department not permitted
	1	<b>Zero price of a PLU or department permitted (default)</b>

- Continued on next page -

- Table, continued -

**Note:** The standard settings appear in bold print.

System option no.	Status no.	Setting
13	<b>0</b>	<b>No special European rounding **</b>
	1	European rounding: Swiss
	2	European rounding: Swedish
	3	European rounding: Danish
14	0	Tax rounding: Rounding
	<b>1</b>	<b>Tax rounding: 5/4 commercial rounding</b>
	2	Tax rounding: Rounding up
15	<b>0</b>	<b>Printing of an additional bill permitted</b>
	1	Printing of an additional bill not permitted
16	<b>0</b>	<b>Zero skip printing for Z-report</b>
	1	No zero skip printing for Z-report
17	<b>0</b>	<b>Print total tax amount: No print</b>
	1	Print total tax amount: Print
18	<b>0</b>	<b>Print taxable amount for each tax rate: No print</b>
	1	Print taxable amount for each tax rate: Print
19	<b>0</b>	<b>Print extra line "Total taxable amount": No print</b>
	1	Print extra line "Total taxable amount": Print
20	<b>0</b>	<b>Print net total for each tax rate: No print</b>
	1	Print net total for each tax rate: Print
21	0	Print extra line "Net total": No print
	<b>1</b>	<b>Print extra line "Net total": Print</b>
22	0	Print "tax rate" symbol to the right of the total: No print
	<b>1</b>	<b>Print "tax rate" symbol to the right of the total: Print</b>
23	<b>0</b>	<b>Print time: Print</b>
	1	Print time: No print
24		(reserved)
25	<b>0</b>	<b>Print tax totals: Before cash line</b>
	1	Print tax totals: After cash line
26	0	Electronic journal is active
	<b>1</b>	<b>Electronic journal is not active</b>
27	<b>0</b>	<b>Store all transactions in REG mode in the electronic journal</b>
	1	Only the sales transactions in REG mode are stored in the electronic journal. Operations such as Paid Out, Received on Account and No Sale are not stored.
28	<b>0</b>	<b>Warning signal "E-journal nearly full" issued at the end of a transaction</b>
	1	Warning signal "E-journal nearly full" not issued at the end of a transaction
29	<b>0</b>	<b>Warning signal "E-journal nearly full" issued at the start of a transaction</b>
	1	Warning signal "E-journal nearly full" not issued at the start of a transaction
30	0	Receipt counter is not deleted after Z-financial report printout
	<b>1</b>	<b>Receipt counter is deleted after Z-financial report printout</b>
31	<b>0</b>	<b>Z1 and Z2 counters are not deleted after Z-financial report printout</b>
	1	Z1 and Z2 counters are deleted after Z-financial report printout

- Continued on next page -



- Table, continued -

**Note:** The standard settings appear in bold print.

System option no.	Status no.	Setting
<b>32</b>	0	Grand Total is not deleted after Z1 financial report printout
	<b>1</b>	<b>Grand Total is deleted after Z1 financial report printout</b>
<b>33</b>	<b>0</b>	<b>Grand Total is not printed on the financial report</b>
	1	Grand Total is printed on the financial report
<b>34</b>	<b>0</b>	<b>Basic currency is the local currency (amount ÷ conversion factor)</b>
	1	Basic currency is foreign currency (amount × conversion factor)
<b>35</b>	<b>0</b>	<b>Refunds are printed in the financial report</b>
	1	Refunds are not printed in the financial report
<b>36</b>	<b>0</b>	<b>Clerk logon not active after each transaction</b>
	1	Clerk logon active after each transaction
<b>40</b>	<b>0</b>	<b>Invoice mode</b>
	1	Journal mode
<b>98</b>	0	Line spacing for receipt printout: 0.5 mm
	1	Line spacing for receipt printout: 0.75 mm
	<b>2</b>	<b>Line spacing for receipt printout: 1.0 mm</b>
	3	Line spacing for receipt printout: 1.25 mm
	4	Line spacing for receipt printout: 1.5 mm
	5	Line spacing for receipt printout: 1.75 mm
	6	Line spacing for receipt printout: 2.0 mm
	7	Line spacing for receipt printout: 2.25 mm
	8	Line spacing for receipt printout: 2.5 mm
	9	Line spacing for receipt printout: 2.75 mm

**\* Note on system option no. 4:**

When "12 hour indication" is selected, it will be displayed and printed as shown below. (AM 0:00 - 11:59, PM 1:00 - 12:59)

Meaning	Display	Print
AM 10:00		CLERK 1 AM10-00
PM 10:00		CLERK 1 PM10-00

↑ PM Sign

**\*\* Note on system option no. 13:**

If no European rounding is selected, the payment amount is rounded according to the following method. Rounding is performed when press cash total key or subtotal key.

Swiss Rounding:

- 0.01 – 0.02 = 0.00
- 0.03 – 0.07 = 0.05
- 0.08 – 0.09 = 0.10

Swedish Rounding:

- 0.00 – 0.24 = 0.00
- 0.25 – 0.74 = 0.50
- 0.75 – 0.99 = 1.00

Denmark Rounding:

- 0.00 – 0.12 = 0.00
- 0.13 – 0.37 = 0.25
- 0.38 – 0.62 = 0.50
- 0.63 – 0.87 = 0.75
- 0.88 – 0.99 = 1.00

The system options set can be printed out.



**Printing system settings:**

Set the key to PRG

Press  6 times,  
conclude by pressing .

Input

Display

9999.99

Confirm by pressing

## 23 System Options Dump Report

You can print the System Options Dump Report as follows:



Set the key to PRG

Press the  key six times.

Confirm by pressing .

Input

Display

9999.99

Confirm by pressing

```

CLERK 1      PM12-27
09-01-2006   0003

//////////
/ YOUR RECEIPT /
/ THANK YOU /
//////////

P FUNCTIONS   0.12
P FUNCTIONS   0.32
P FUNCTIONS   0.40
P FUNCTIONS   0.51
P FUNCTIONS   0.71
P FUNCTIONS   1.10
P FUNCTIONS   1.21
P FUNCTIONS   1.30
P FUNCTIONS   1.41
P FUNCTIONS   1.50
P FUNCTIONS   1.60
P FUNCTIONS   1.70
P FUNCTIONS   1.80
P FUNCTIONS   1.90
P FUNCTIONS   2.00
P FUNCTIONS   2.11
P FUNCTIONS   2.21
P FUNCTIONS   2.30
P FUNCTIONS   2.50
P FUNCTIONS   2.61
P FUNCTIONS   2.70
P FUNCTIONS   2.80
    
```

System Options

```

P FUNCTIONS      2.90
P FUNCTIONS      3.01
P FUNCTIONS      3.10
P FUNCTIONS      3.21
P FUNCTIONS      3.30
P FUNCTIONS      3.40
P FUNCTIONS      3.50
P FUNCTIONS      3.60
P FUNCTIONS      4.00
P FUNCTIONS      9.82
P % DISCOUNT   10.60%-
                10.000T1
                20.000T2
                30.000T3
                40.000T4
P FC RATE        1120000.25
P FC RATE        2120000.30
P FC RATE        3020000.01
P FC RATE        4020000.01
P SECU CODE      12.34
CLERK 1          111
CLERK 2          222
CLERK 3          333
CLERK 4          000
CLERK 5          000
CLERK 6          000
CLERK 7          000
CLERK 8          000
    
```

System Options

Tax rate

Foreign Currency Rate

Z Report

Security Code

Clerk Security Code

## 24 Clearing errors

Incorrect entries and error status (acoustic signal) can be cleared by pressing .

## 25 Registration according to departments

Enter price without decimal point (max. 7 digits).

Price	Department
PPPPPPP	<input type="text" value="1"/> <input type="text" value="+"/>

Or: **If the same PLU should be registered several times:**

No. of PLUs	Price	Department
NN	<input type="text" value="X/TIME"/> <input type="text" value="DW"/>	PPPPPPP <input type="text" value="1"/> <input type="text" value="+"/>

The sum of NN x PPPPPPP is limited to the maximum capacity of the cash register.

## 26 Registration according to PLU numbers

Enter the PLU (max. 3 digits)

PLU number	PLU
E.g. <input type="text" value="1"/> <input type="text" value="PQRS"/> <input type="text" value="2"/> <input type="text" value="TUV"/>	<input type="text" value="PLU"/>

Or: **If the same PLU should be registered several times:**

No. of PLUs	PLU	PLU
NN	<input type="text" value="X/TIME"/> <input type="text" value="DW"/>	E.g. <input type="text" value="1"/> <input type="text" value="PQRS"/> <input type="text" value="2"/> <input type="text" value="TUV"/> <input type="text" value="PLU"/>

The sum of NN x PLU price is limited to the maximum capacity of the cash register.

Or: **When a PLU is being used which has been programmed with free pricing:**

PLU no.	PLU	Price entry	PLU
E.g. <input type="text" value="1"/> <input type="text" value="PQRS"/> <input type="text" value="2"/> <input type="text" value="TUV"/>	<input type="text" value="PLU"/>	PPPPPPP	<input type="text" value="PLU"/>

Or: **When a department or PLU should operate with minus:**

Price entry	Department	PLU no.	PLU
<input type="text" value="REF/-"/> PPPPPPP	<input type="text" value="1"/> <input type="text" value="+"/>	or E.g. <input type="text" value="1"/> <input type="text" value="PQRS"/> <input type="text" value="2"/> <input type="text" value="TUV"/>	<input type="text" value="PLU"/>

## 27 Conclude receipt

When all the PLUs have been registered, press the  key to display and print the subtotal.

Enter the amount paid without a decimal point and conclude the receipt by pressing

Amount tendered	Conclude receipt
<input type="text" value="SUB TOTAL"/> PPPPPPP	<input type="text" value="CASH TOTAL ="/>

## 28 Sample Receipt

### 28.1 Example 1: Default Settings with Footer Message

System options: 4-0, 17-0, 18-0, 19-0, 20-0, 21-1 and 40-0 (Default).

Below example is shown for programmed footer message.

	/////////////// / YOUR RECEIPT / / THANK YOU / ///////////////		
Clerk Name →	CLERK 1            13-03	← Time	
Date →	09-01-2006        0004	← Consecutive Number	
Department Caption {	DEPT01            1.00T1	Taxable 1 Department	
	DEPT02            2.00T2		Taxable 2 Department
	DEPT03            3.00T3		Taxable 3 Department
	DEPT04            4.00T4		Taxable 4 Department
	DEPT05            5.00	Non Taxable Department	
Subtotal →	----- SUBTTL            15.00		
VAT 1 Amount {	VAT 10.000%      0.09T1		
VAT 2 Amount {	VAT 20.000%      0.33T2		
VAT 3 Amount {	VAT 30.000%      0.69T3		
VAT 4 Amount {	VAT 40.000%      1.14T4		
	-----		
	TOT EXCL VAT      7.75	← Total Taxable Amount (without Tax)	
	<b>CASH            20.00</b>	← Cash Amount	
	CHANGE            5.00	← Change	
	HAVE A NICE DAY PLEASE COME AGAIN *****	} Footer Message	

### 28.2 Example 2: Journal Mode

System options: 4-0, 17-0, 18-0, 19-0, 20-0, 21-1 and 40-1

CLERK 1	13-03
09-01-2006	0005
DEPT01	1.00T1
DEPT02	2.00T2
DEPT03	3.00T3
DEPT04	4.00T4
DEPT05	5.00
-----	
SUBTTL	15.00
VAT 10.000%	0.09T1
VAT 20.000%	0.33T2
VAT 30.000%	0.69T3
VAT 40.000%	1.14T4
-----	
TOT EXCL VAT	7.75
<b>CASH</b>	<b>20.00</b>
CHANGE	5.00

### 28.3 Example 3: Total Tax Amount

System options: 4-1, 17-1, 18-0, 19-0, 20-0, 21-0 and 40-0.

CLERK 1	PM01-03
09-01-2006	0006
DEPT01	1.00T1
DEPT02	2.00T2
DEPT03	3.00T3
DEPT04	4.00T4
DEPT05	5.00
-----	
SUBTTL	15.00
VAT 10.000%	0.09T1
VAT 20.000%	0.33T2
VAT 30.000%	0.69T3
VAT 40.000%	1.14T4
-----	
TOT VAT	2.25
<b>CASH</b>	<b>20.00</b>
CHANGE	5.00

← Total VAT Amount

### 28.4 Example 4: Net Total

System options: 4-1, 17-1, 18-0, 19-0, 20-1, 21-1 and 40-0.

CLERK 1	PM01-03
09-01-2006	0007
DEPT01	1.00T1
DEPT02	2.00T2
DEPT03	3.00T3
DEPT04	4.00T4
DEPT05	5.00
-----	
SUBTTL	15.00
VAT 10.000%	0.09T1
VAT 20.000%	0.33T2
VAT 30.000%	0.69T3
VAT 40.000%	1.14T4
-----	
TOT VAT	2.25
AMT VAT EXCL 10.000%	0.91T1
AMT VAT EXCL 20.000%	1.67T2
AMT VAT EXCL 30.000%	2.31T3
AMT VAT EXCL 40.000%	2.86T4
-----	
TOT EXCL VAT	7.75
<b>CASH</b>	<b>20.00</b>
CHANGE	5.00

← Total VAT Amount

} Taxable Amount  
(without Tax)

← Total Taxable Amount (without Tax)

## 28.5 Example 5: Taxable Amount

System options: 4-1, 17-1, 18-1, 19-1, 20-1, 21-0 and 40-0.

CLERK 1	PM01-03	
09-01-2006	0008	
DEPT01	1.00T1	
DEPT02	2.00T2	
DEPT03	3.00T3	
DEPT04	4.00T4	
DEPT05	5.00	
-----		
SUBTTL	15.00	
AMT VAT INCL 10.000%		
	1.00T1	
AMT VAT INCL 20.000%		
	2.00T2	
AMT VAT INCL 30.000%		
	3.00T3	
AMT VAT INCL 40.000%		
	4.00T4	
-----		
TOT INCL VAT	10.00	← Total Taxable Amount (with Tax)
VAT 10.000%	0.09T1	} Taxable Amount (with Tax)
VAT 20.000%	0.33T2	
VAT 30.000%	0.69T3	
VAT 40.000%	1.14T4	
-----		
TOT VAT	2.25	← Total VAT Amount
AMT VAT EXCL 10.000%		} Taxable Amount (without Tax)
	0.91T1	
AMT VAT EXCL 20.000%		
	1.67T2	
AMT VAT EXCL 30.000%		
	2.31T3	
AMT VAT EXCL 40.000%		
	2.86T4	
-----		
<b>CASH</b>	<b>20.00</b>	
CHANGE	5.00	

## 29 Error Correction and Voids

Faulty registrations can be corrected immediately after entry or later in the transaction.

**Error correction (direct):** The last item entered during a registration can be corrected directly.

EC

Correction is completed

**Void (designated correction):** Errors in amounts, PLU prices and department prices in transaction entered previously can be corrected during the registration.

VOID

Void function is activated Complete the registration to be cancelled

**Refund /returned goods:** Registrations via amounts, PLU numbers or department prices which have already been concluded can be reverted.



Refund function is activated Complete the registration to be reverted



### 30 Other functions



Cash register is opened



For cash payments, enter the amount and press the key.



For payments received on account, enter the amount and press the key.



Following a registration or conclusion of the subtotal, a percentage discount can be entered.

Example: Entry for 5%:

### 31 Subtraction (-) Operations

key entries can be made with a maximum 7 digits amount entry.

Single entries and multiple entries can be performed.

#### 31.1 Single Entry



Set the key to REG

First press the key.

Then enter the amount to be deducted.

Then press the department key for which the deductions should be performed.

Example: Deduction of 0.10 EUR from product group 1.

Input

Display

Confirm by pressing



0.10



#### 31.2 Multiple Entry



Set the key to REG

First press the key.

Enter the number of deduction and complete this step by pressing the key.

(A value between 0.001 and 99,999 can be entered.)

Then enter the amount of the deductions and confirm the entry with the PLU key for the product group from which the deductions are to be made.

Example: Subtraction of 2 x 0.25 EUR from product group 4.

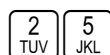
Input

Display

Confirm by pressing



2




0.25




```

////////////////////
/ YOUR RECEIPT /
/ THANK YOU /
////////////////////

CLERK 1          PM01-03
09-01-2006      0009
DEPT01          10.00T1
DEPT02          20.00T2
COUPON          -0.10
COUPON          -0.20
DEPT03          30.00T3
DEPT04          40.00T4
                2.x  0.25@
COUPON          -0.50
-----
TOTAL           99.20
CASH         99.20
VAT 10.000%    0.91T1
VAT 20.000%    3.33T2
VAT 30.000%    6.92T3
VAT 40.000%    11.43T4
    
```

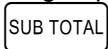
} Single  key entries


} Multiple  key entry

## 32 -% Key Operations

### 32.1 Sale Discount

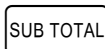


Set the key to REG  
 First register all product groups and complete this step by pressing the  key.

Press the  key,  
 and the preset percentage is deducted.  
 Continue as usual.

Example: Deduction of preset percentage.

Input                      Display    Confirm by pressing





```

////////////////////
/ YOUR RECEIPT /
/ THANK YOU /
////////////////////

CLERK 1          PM01-03
09-01-2006      0010
DEPT01          10.00T1
DEPT02          20.00T2
-----
SUBTTL          30.00
DISCOUNT 10.00% -3.00
-----
TOTAL           27.00
CASH         27.00
VAT 10.000%    0.82T1
VAT 20.000%    3.00T2
    
```

← Preset Percentage Rate / Discount Amount



### 32.2 Item Discount / Department Discount

Example: Deduction of a variable percentage of 5% from product group 2.



Set the key to REG  
 Register all departments first of all.  
 Enter the required percentage rate after registering Department 2.  
 A value between 0.01 and 99.99 can be entered.  
 Then press the  key.  
 Continue as usual.

Input                      Display                      Confirm by pressing

JKL

5.000

/////////////////////////////////// / YOUR RECEIPT / / THANK YOU / //////////////////////////////////	
CLERK 1	PM01-03
09-01-2006	0011
DEPT01	10.00T1
DEPT02	20.00T2
DISCOUNT 5.00%	-1.00
-----	
TOTAL	29.00
<b>CASH</b>	<b>29.00</b>
VAT 10.000%	0.91T1
VAT 20.000%	3.17T2

← Override Percentage Rate / Discount Amount

## 33 Void & EC Key Operations

### 33.1 Immediate Cancellation

Erroneous postings can be cancelled immediately after their registration using the  key.  
 (Important: No other registrations must have been made since then.)



After you have mistakenly registered a product group, you can cancel this transaction by immediately pressing the  key.  
 Then continue as usual.

### 33.2 Void

If the registration process has not yet been completed with the  key, erroneous postings can be cancelled using the  key, even if other registrations have taken place since then.



During the registration, it is possible to cancel an entry previously made by pressing the  key and then completing the registration to be cancelled.  
 Then continue as usual.

// / YOUR RECEIPT / / THANK YOU / //		
CLERK 1	PM01-03	} Error Correct with Immediate Cancellation ← } Non-last Item Void
09-01-2006	0012	
DEPT01	10.00T1	
DEPT02	20.00T2	
VOID/CORR		
DEPT02	-20.00T2	
DEPT03	30.00T3	
DEPT04	40.00T4	
VOID/CORR		
DEPT03	-30.00T3	
-----		
TOTAL	50.00	
<b>CASH</b>	<b>50.00</b>	
VAT 10.000%	0.91T1	
VAT 40.000%	11.43T4	

## 34 Merchandise Return Operations

### 34.1 Single Department Entry

Example: 1 item from product group 1 valued at 10 EUR is returned.



Set the key to REG

Initiate the return by pressing the **REF/-** key.

Enter the product value of the returned product and press the relevant department key.

Continue as usual.

Input	Display	Confirm by pressing
		<b>REF/-</b>
<b>1</b> PQRS	10.00	<b>1</b> +

### 34.2 Multiple Department Entry

Example: 2 items from product group 2, each valued at 2 EUR, are returned.



Set the key to REG

Initiate the return by pressing the **REF/-** key.

Enter the number of returned products (with the same price) and complete this step by pressing the **X/TIME DW** key. (A value between 0.001 and 99,999 can be entered.)

Then enter the price of the returned products and confirm the entry by pressing the relevant department key.

Continue as usual.

Input	Display	Confirm by pressing
		<b>REF/-</b>
<b>2</b> TUV	2	<b>X/TIME DW</b>
<b>2</b> TUV <b>0</b> "# <b>0</b> "#	2.00	<b>2</b> X

```

////////////////////
/ YOUR RECEIPT /
/ THANK YOU /
////////////////////

CLERK 1          PM01-03
09-01-2006      0013
REFUND- - - - -
DEPT01          -10.00T1
                2.x    2.00@
REFUND- - - - -
DEPT02          -4.00T2
- - - - -
TOTAL           -14.00
CASH         -14.00
VAT 10.000%    -0.91T1
VAT 20.000%    -0.67T2
    
```

} Single Item Returned

} Multiple Items Returned

### 35 Received on Account Operations



Set the key to REG  
 Enter the amount to be placed in the cash register (max. 7 digits)  
 and then press the **RA** key.

Example: 10 EUR are placed in the cash register.

Input	Display	Confirm by pressing
<b>1</b> <b>0</b> <b>0</b> <b>0</b> PQRS "##"##	10.00	<b>RA</b>

```

////////////////////
/ YOUR RECEIPT /
/ THANK YOU /
////////////////////

CLERK 1          PM01-03
09-01-2006      0014
RECD ACCT       10.00
    
```

### 36 Paid Out Operations



Set the key to REG  
 Enter the amount to be paid out from the cash register (max. 7 digits)  
 and then press the **PO** key.

Example: 5 EUR were paid out of the cash register.

Input	Display	Confirm by pressing
<b>5</b> <b>0</b> <b>0</b> JKL "##"##	5.00	<b>PO</b>

```

////////////////////
/ YOUR RECEIPT /
/ THANK YOU /
////////////////////

CLERK 1          PM01-03
09-01-2006      0015
PAID OUT        -5.00
    
```

### 37 Non-add # Print Operations



The **#/NS** key is a non-add key which accepts up to a 7 digits numeric entry. Entry will not add to any activity or sales totals.

```

////////////////////
/ YOUR RECEIPT /
/ THANK YOU /
////////////////////

CLERK 1          PM01-03
09-01-2006      0016
                1234567#
DEPT01          10.00T1
-----
TOTAL           10.00
CASH          10.00
VAT 10.000%    0.91T1
    
```

### 38 No Sale Operations



A no sale operation will simply open the cash drawer. However, the financial report records the nosale activity count.

To open the cash drawer just push **#/NS**

```

////////////////////
/ YOUR RECEIPT /
/ THANK YOU /
////////////////////

CLERK 1          PM01-03
09-01-2006      0017
                1234567#
NO SALE
    
```

## 39 "Tendering" Operations

### 39.1 Cash Tenders

Example: A bill in the amount of 30 EUR is paid with 50 EUR in cash.



Set the key to REG

First register all product groups and complete this step by pressing the **SUB TOTAL** key.

Then enter the amount that you received in cash and confirm the entry with the **CASH TOTAL =** key.

Input

Display

Confirm by pressing

5 0 0 0  
JKL "# "# "#

50.00

SUB TOTAL

CASH TOTAL =

////////////////////////////////// / YOUR RECEIPT / / THANK YOU / //////////////////////////////////	
CLERK 1	PM01-03
09-01-2006	0018
DEPT01	10.00T1
DEPT02	20.00T2
-----	
SUBTTL	30.00
<b>CASH</b>	<b>50.00</b>
CHANGE	20.00
VAT 10.000%	0.91T1
VAT 20.000%	3.33T2

← Cash Amount      ← Change

### 39.2 Check Tenders

Example: A bill in the amount of 30 EUR is paid with a check for 50 EUR.



Set the key to REG

First register all product groups and complete this step by pressing the **SUB TOTAL** key.

Then enter the check amount and confirm this step by pressing the **CHECK** key.

Input

Display

Confirm by pressing

5 0 0 0  
JKL "# "# "#

50.00

SUB TOTAL

CHECK

////////////////////	
/ YOUR RECEIPT /	
/ THANK YOU /	
////////////////////	
CLERK 1	PM01-03
09-01-2006	0019
DEPT01	10.00T1
DEPT02	20.00T2
-----	
SUBTTL	30.00
<b>CHECK</b>	<b>50.00</b>
CHANGE	20.00
VAT 10.000%	0.91T1
VAT 20.000%	3.33T2

← Check Amount

← Change

### 39.3 Split Tender

Example: A bill in the amount of 30 EUR is paid with 15 EUR in cash and a check for 15 EUR.



Set the key to REG

First register all product groups and complete this step by pressing the **SUB TOTAL** key.

Then enter the amount that you received in cash and confirm the entry with the **CASH TOTAL =** key.

Then enter the check amount and confirm this step by pressing the **CHECK** key.

Input	Display	Confirm by pressing
		<b>SUB TOTAL</b>
1 5 0 0 PQRS JKL "# "#	15.00	<b>CASH TOTAL =</b>
1 5 0 0 PQRS JKL "# "#	15.00	<b>CHECK</b>


////////////////////	
/ YOUR RECEIPT /	
/ THANK YOU /	
////////////////////	
CLERK 1	PM01-03
09-01-2006	0020
DEPT01	10.00T1
DEPT02	20.00T2
-----	
SUBTTL	30.00
<b>CASH</b>	<b>15.00</b>
<b>CHECK</b>	<b>15.00</b>
VAT 10.000%	0.91T1
VAT 20.000%	3.33T2

← Cash Payment

← Check Payment

### 39.4 Card Tender



Set the key to REG  
 First register all product groups and complete this step by pressing the  key.

Example: A bill in the amount of 70 EUR is paid with a card.

Input                      Display                      Confirm by pressing




//////////////////////////////////// / YOUR RECEIPT / / THANK YOU / ////////////////////////////////////	
CLERK 1	PM01-03
09-01-2006	0021
DEPT03	30.00T3
DEPT04	40.00T4
-----	
SUBTTL	70.00
<b>CARD</b>	<b>70.00</b>
VAT 30.000%	6.92T1
VAT 40.000%	11.43T2

← Card Payment


## 40 Foreign Currency (FC) Conversion Operation

- Subtotal value is shown on the display using exchange rate. Original value and converted value are shown in turn each time when depressed the key.
- When the base currency is set to Local, converted amount is in Euro and when the base currency is set to Euro, the converted amount is in Local.
- **Base Currency: LOCAL**  
 Subtotal Amount ÷ Conversion Rate = Conversion Amount
- **Base Currency: EURO**  
 Subtotal Amount × Conversion Rate = Conversion Amount
- When tendered immediately after currency conversion is made (now converted total amount is on display), the machine understands that the payment is made in the converted currency.

### 40.1 Foreign currency payment

When all the PLUs have been registered, press the  key to display and print the subtotal.

Enter the foreign currency identification and press . The total is displayed in the foreign currency. After pressing

 again, the local currency is displayed. Enter the amount tendered in the local or foreign currency and conclude the

receipt by pressing .

Example: A customer pays a bill amounting to 15.- EUR with 20 US Dollars.



Set the key to REG  
 After the transactions have been registered, complete the subtotal.  
 Enter the foreign currency identification (in this case: US Dollar = foreign currency identification 1) and confirm.  
 Enter the amount received in the foreign currency mode and conclude the receipt.  
 The change amount is displayed in local currency. The change amount is printed in local and foreign currency.

Input	Display	Confirm by pressing
SUB TOTAL	15.00	
1 PQRS	1	FC
	19.51	
2 TUV 0 "# 0 "# 0 "#	20.00	CASH TOTAL =
	0.30	

Example: The customer receives either 30 Euro cents or 39 US cents change.

### 40.2 Direct Tender

<b>Characteristic:</b>	Base Currency	Foreign Currency Conversion Rate	FC#1 Caption	System Decimal Point
<b>Setting:</b>	LOCAL	2.5 (Decimal Point = 2)	FC-1	2



	Input	Display	
No Print {	1 PQRS PLU	01 1.00	
	SUB TOTAL	Σ 1.00	1.00 ÷ 2.5 = 40
	1 PQRS FC	□ 0.40	← FC-1 Total
	FC	Σ 1.00	
	1 PQRS FC	□ 0.40	
	CASH TOTAL =	= 0.40	← Foreign Currency Cash Amount

```

//////////
/ YOUR RECEIPT /
/ THANK YOU /
//////////

CLERK 1          PM01-03
09-01-2006      0022
PLU 001          1.00T1
-----
SUBTTL          1.00
VAT 10.000%     0.09T1
-----
TOT EXCL VAT    0.91
FC-1 *2.5       0.40
CASH FC-1     0.40
    
```

← FC-1 Total  
 ← FC-1 Cash Amount



## 41 Calculation Machine Mode

In the Calculator mode, the operational keys are limited to the following keys. In this mode, no print is effective.

Key	Meaning	Key	Meaning	Key	Meaning
	CLEAR		+		00, 0 - 9
	=		X		
			-		
			÷		

**Note 1:** When a result from a division includes figures below zero, it will be rounded to a nearest integer after rounding up/down ( 5/4 ) the first place after the decimal point.

**Note 2:** During the calculation mode, key tone is eliminated.

### 41.1 Addition and Subtraction



Set the key to **CAL**

Calculation:

$$\begin{array}{r}
 500 \\
 + 90 \\
 - 15 \\
 - 20 \\
 \hline
 = 555
 \end{array}$$

Input	Display	Confirm by pressing
	+ 500	
	+ 90	
	- 15	
	- 20	
	= 555	
	0	

### 41.2 Multiplication and Division



Set the key to **CAL**

Calculation:

$$\begin{array}{r}
 500 \\
 \times 2 \\
 \hline
 1000 \\
 \div 4 \\
 \hline
 = 250
 \end{array}$$

Input	Display	Confirm by pressing
	+ 500	
	x 2	
	= 1000	
	÷ 4	
	= 250	

### 41.3 Memory

A value is saved to the memory using the **SUB TOTAL** key; a value is retrieved from the memory using the **PO** key.

When working with the memory, it does not matter if the value to be saved came from a calculation in CAL mode (see above) or whether a value is to be saved from within a normal product registration in REG mode.

The memory can be used in both modes:



Set the key to **REG**

Calculation (part 1):

$$\begin{array}{r} 10 \\ + 20 \\ \hline = 30 \text{ (save)} \end{array}$$

Input	Confirm by pressing	Display
<b>1</b> PORS <b>0</b> "# <b>0</b> "# <b>0</b> "#	<b>1</b> +	01 10.00
<b>2</b> TUV <b>0</b> "# <b>0</b> "# <b>0</b> "#	<b>2</b> X	02 20.00

Save with the **SUB TOTAL** key. Retrieve with the **PO** key.

<b>SUB TOTAL</b>	5	30.00
------------------	---	-------



Set the key to **CAL**

Calculation (part 2):

$$\begin{array}{r} 30 \text{ (from the memory)} \\ \div 3 \\ \hline = 10 \end{array}$$

Input	Display	Confirm by pressing
<b>PO</b>	30.00	
<b>6</b> ÷ <b>3</b> WXYZ	3	<b>CASH TOTAL =</b>
	10.00	



Set the key to **REG**

<b>PO</b>	10.00	
<b>CASH TOTAL =</b>	20.00	
<b>PO</b> <b>CASH TOTAL =</b>	10.00	
<b>PO</b> <b>CASH TOTAL =</b>	C	0.00

// / YOUR RECEIPT / / THANK YOU / //	
CLERK 1	PM01-03
09-01-2006	0023
DEPT01	10.00T1
DEPT02	20.00T2
-----	
SUBTTL	30.00
VAT 10.000%	0.91T1
VAT 20.000%	3.33T2
-----	
TOT EXCL VAT	25.76
<b>CASH</b>	<b>10.00</b>
<b>CASH</b>	<b>10.00</b>
<b>CASH</b>	<b>10.00</b>
CHANGE	0.00

## 42 Z-Report Security Code

Management reports can be printed in either the "X" or "Z" position on the control switch. When printed in the "Z" position, transaction totals are reset to zero. Assigning a security-code can prevent accidental reset of transaction totals. Once assigned, the "Z" report prints only after entering the security code.

### 42.1 Programming the Z-Report Security Code

**Note:** Assign a number easily remembered. You should also keep the program receipt as a reminder. If you do target the code, reset this program with a new code. Then, print the using the new code.



Set the key to PRG

Enter the security code as 4 digits.

Confirm by pressing

Example: "6543" is programmed as the new security code.

Input	Confirm by pressing	Display
<input type="button" value="6"/> MNO <input type="button" value="5"/> JKL <input type="button" value="4"/> GHI <input type="button" value="3"/> WXYZ	<input type="button" value="EC"/>	P SECU CODE 65.43

### 42.2 Entering the Z-Report Security Code



Set the key to Z

Enter the security code. Confirm by pressing .

In case that the security code "0000" is preset, enter  key only.

Example: Enter security code "6543".

Input	Display	Confirm by pressing
<input type="button" value="6"/> MNO <input type="button" value="5"/> JKL <input type="button" value="4"/> GHI <input type="button" value="3"/> WXYZ	65.43	<input type="button" value="CHECK"/>

## 43 Management Report Notes

This section gives instructions for taking reports. Reports may be taken with the control switch in the X or Z position.

- X Position - Reads financial reports.
- Z Position - Reads financial reports, and resets totals to zero.

The read-out for the financial report is the same whether taken in the X or Z position, the only difference is that totals are reset to zero after a Z position report.

### 43.1 Printing reports



**X-reports:** Without memory deletion. **Z-reports:** With memory deletion.

Set the key to X (to print X-reports) or Z (to print Z-reports) as necessary.

Report type:

Start printout with:



Day's X and Z-financial report

Day's X and Z-PLU report

X and Z-clerk report

Monthly X2 and Z2 financial report

X and Z-training report

Electronic journal (X)

Electronic journal (Z)

(only when active in system option 26)

If the full electronic journal should be printed, the message  appears in the display together with an acoustic signal.

- If the electronic journal should be deleted after printing, press .
- If the electronic journal should not be deleted after printing, press .



**Delete the electronic journal without printing**

Input

Confirm by pressing

Set the key to Z

in the display: Delete the electronic journal by pressing .

in the display: Do not delete the electronic journal by pressing .

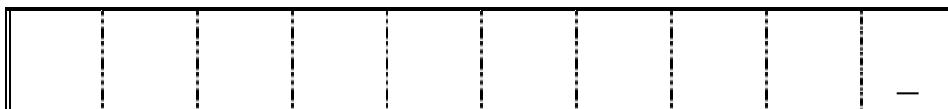
## 44 Electronic Journal (EJ)

### 44.1 Basic Explain for Electronic Journal

This Electronic Cash Register has 3000 lines for electronic journal memory. Those are used for REG mode transaction and Z financial report. Therefore, the other transaction like X report and programming dump report will not be buffered to electronic journal memory.

**Note:** Warning indicator for Nearly full of EJ

" \_ " marks that is in most right side on the display shows to nearly full of EJ buffer.



### 44.2 In case of Nearly full of EJ in REG mode

**Note:** *Almost full* means that less than 500 lines remain in the buffer memory.

When the EJ memory is almost full, the indicator of the 1<sup>st</sup> digit will be lit. Warning beep (about 2 seconds) will sound if programmed. There are two options. These options determine the timing of the sounds. One is sound at the end of transaction. The other is the sound at the start of the transaction.

### 44.3 In case of Full of EJ in REG mode

**Note:** *Full* memory means that less than 150 lines remain in the buffer memory.

**Note:** Options 28 and 29 will not effect in case Full of EJ.

When the EJ memory is full, the message will be displayed as [EJ FULL ]. And, the warning beep (about 2 seconds ) will be sound. That message will be displayed at the start of transaction. At that time, ECR will wait some input.

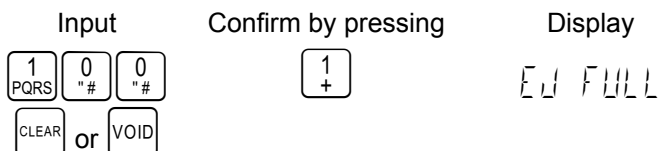
- If key is inputted, the transaction will be able to start.

**Note:** The transaction will not be buffered to EJ memory and Consecutive Counter will not be updated in that case.

- If key is inputted, the transaction will be escaped.



Set the key to REG



## 44.4 Time Display & Inform for Electronic Journal

### 44.4.1 Time Display



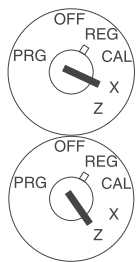
Input	Display	Meaning
		24-hour clock display
		12-hour clock display

**Note:** The time can be displayed outside of a sale only.



### 44.8 Print the Latest Transactions in the Electronic Journal

Example: Print the 150 Latest Transactions



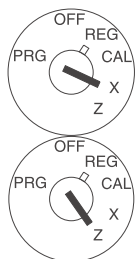
Set the key to X or Z.  
 Enter the 3-digit number of transaction (NNN)  
 and confirm with **PO**.  
 (A number between 001 and 999 can be entered.)

Input	Display	Confirm by pressing
<b>1</b> PQRS <b>5</b> JKL <b>0</b> "#	150	<b>PO</b>

“NNN” means to appointing the number of transaction. The Electronic Cash Register will be reported from older transaction by appointed number. When the issued transaction reach to latest, the report will be stopped. If the appointed number is bigger than saved transaction into EJ memory, the report will be started from oldest transaction.

### 44.9 Print the Z-Report in the Electronic Journal

Example: Print the Z-Report, Print Journal to Z-Report No. 30



Set the key to X or Z.  
 Enter the 2-digit number of Z-report (DD) and  
 confirm the entry by pressing the **RA** key.  
 (A number between 01 and 99 can be entered.)

Input	Display	Confirm by pressing
<b>3</b> WXYZ <b>0</b> "#	30	<b>RA</b>

“DD” means to appointing the number of issued Z financial report. The Electronic Cash Register will be reported from oldest transaction. The Electronic Cash Register will count the issued Z financial report. When the count reach entered number, the report will be stopped. If the issued data is all before the count reach entered number, the report will be stopped.

### 44.10 Delete the Electronic Journal Memory (without printing)



Set the key to Z.  
 Enter **8** ABC and **1** PQRS and confirm with **RECEIPT ON/OFF**.  
 Electronic journal memory will be cleared without printing.

Input	Display	Confirm by pressing
<b>8</b> ABC <b>1</b> PQRS	81	<b>RECEIPT ON/OFF</b>

Confirmation function for clearing EJ memory. When the report issueing is finished in Z mode, the Electronic Cash Register will displayed [CL ] and long beep (about 2 seconds) will be sound. It means to confirm to clear EJ memory in truely. Then the Electronic Cash Register will wait for entering some key input. One is **RECEIPT ON/OFF** key entering again. It means to clear EJ memory in fact. The other is **VOID** key entering. It means to escape clear EJ memory.



## 45 Training mode

### 45.1 To operate in Training Mode

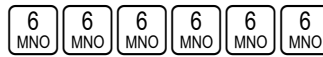


**Start Training mode:**

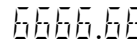
Set the key to PRG

Press  6 times, conclude by pressing .

Input



Display



Confirm by pressing



**To operate in Training mode:**


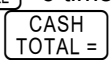
Set the key to REG

**Note:** No reports can be printed in Training mode.

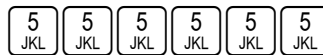


**End Training mode:**

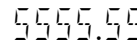
Set the key to PRG

Press  6 times, conclude by pressing .

Input



Display



Confirm by pressing



### 45.2 Training Mode Report



Set the key to X or Z.

**X Position:** Prints the Training report without deleting it

Input





Display



Confirm by pressing



**Z Position:** Training report is printed and the total amounts are reset to zero.

Enter 2 times  and confirm with .



CLERK 1	PM01-03
09-01-2006	****
ZO	0001
	034
DEPT01	382.00T1
	018
DEPT02	327.00T2
	009
DEPT03	244.00T3
	005
DEPT04	200.00T4
	006
DEPT05	268.00
	016

DEPT14	21.00
	006
DEPT15	12.00
	003
DEPT16	9.00
TL DEPT	1463.00
TL VAT 1 10.000%	
	34.63T1
AMT VAT EXCL 10.000%	
	346.37T1
TL VAT 2 20.000%	53.83T2
AMT VAT EXCL 20.000%	
	269.17T2
TL VAT 3 30.000%	54.91T3
AMT VAT EXCL 30.000%	
	183.09T3
TL VAT 4 40.000%	56.01T4
AMT VAT EXCL 40.000%	
	139.99T4
TOTAL VAT	199.38
TL-COUPON	-3.00
TL-DISCOUNT	-15.00
<b>TL</b>	1445.00
<b>TL-NET</b>	1245.62
TOT REFUND	-53.00
TL VOID/CORR	-50.00
ROUNDING	0.00

023	
TL CASH	1298.00
	003
TL CHECK	74.00
	004
TL CARD	73.00
	001
TL RECD ACCT	10.00
	001
TL PAID OUT	-5.00
FC-1 *2.5	76.00
FC-2 *1.0	22.00
FC-3 *1.5	56.00
FC-4 *3.0	15.00
TL NO SALE	002
<b>C-I-D</b>	1303.00
CHECK-I-D	74.00

## 46 Deletion function

**Caution:** The following steps should only be taken when you are familiar with the programming functions.



### Initiate a warm start

A warm start deletes the last malfunction. The programming is retained.

Set the key to PRG. Disconnect the power plug.

Then press the **CLEAR** and **7 @** keys simultaneously while reconnecting the power plug.

The cash register prints PARTIAL RESET.



### Delete all reports

All sales are deleted. The programming is retained.

Set the key to PRG. Disconnect the power plug. Then press the **CLEAR**, **7 @** and **9 DEF** keys simultaneously while reconnecting the power plug.

The cash register prints REPORT RESET.



### Delete all data







All programming and sales are deleted. The cash register is reset to its default, factory settings.

Set the key to PRG. Disconnect the power plug. Then press the **CLEAR**, **3 WXYZ** and **7 @** keys simultaneously while reconnecting the power plug.

The cash register prints FULL RESET.

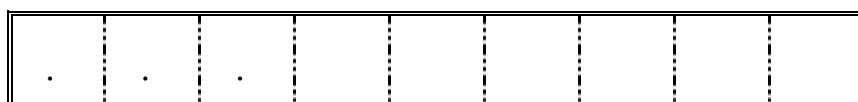
## 47 Error messages




Error messages appear in the display in the case of incorrect operation.

Error message	Cause	Corrective measure
E	Wrong key pressed.	Press  .
PAPER	End of paper	Insert new paper roll, press  .
EU FULL	The electronic journal is full.	Delete the electronic journal (with or without printout).
SEC-CODE	A password has been programmed for Z-reports.	Enter the 4-digit password, press  .
SEC-CODE	A password has been programmed for the clerk.	Enter the clerk number. Then enter the 3-digit password. Conclude by pressing  .
EL	Request for report printout of the electronic journal with key in position Z.	Delete the electronic journal by pressing  Or: Clear the error message by pressing  .

## 48 What to do if the cash register does not print?

In the event the cash register fails to print receipts or reports, check whether a special function has been activated. Special functions are indicated by a dot in the display:



- The cash register is in Training mode; no reports can be printed in this mode.  
**What to do:** Deactivate Training mode. To do this, set the key-operated switch to PRG and press the  key 6 times. Conclude by pressing   
 (Also refer to the Section "Training mode".)
- The Receipt function has been deactivated on the cash register. There is no paper transport and, therefore, no receipt is printed.  
**What to do:** Press the  key to activate the receipt printing function.
- The cash register is in Calculator mode; the key-operated switch is set to CAL.  
 There is no paper transport in Calculator mode. In addition, only the calculation keys are operational.  
**What to do:** Set the key to REG.

## 49 Printer malfunction

In the event of a printer error, switch the cash register off immediately and disconnect the power plug. Check whether the paper roll is inserted correctly or there is a foreign body in the printer mechanism. Remove it, if present.

**Caution:** Remove the foreign body very carefully. Do not use a knife, screwdriver or anything similar. Never use force. This could damage the printer mechanism.

Switch the cash register on again and complete a registration.  
 If the printer error reoccurs, contact the service centre.