USER MANUAL

PLUS2



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UNLESS OTHERWISE SPECIFIED, THE INFORMATION GIVEN IN THIS MANUAL

ARE REFERRED TO ALL MODELS IN PRODUCTION AT THE ISSUE DATE OF THIS DOCUMENT.

GENERAL SAFETY INFORMATION

Your attention is drawn to the following actions that could compromise the characteristics of the product:

- Read and retain the instructions which follow.
- Follow all indications and instructions given on the device.
- Make sure that the surface on which the device rests is stable. If it is not, the device could fall, seriously damaging it.
- Make sure that the device rests on a hard (non-padded) surface and that there is sufficient ventilation.
- When positioning the device, make sure cables do not get damaged.
- Use the type of electrical power supply indicated on the device label. If uncertain, contact your dealer.
- Make sure the electrical system that supplies power to the device is equipped with a ground wire and is protected by a differential switch.
- Do not block the ventilation openings.
- Do not insert objects inside the device as this could cause short-circuiting or damage components that could jeopardize printer functioning.
- Do not carry out repairs on the device yourself, except for the normal maintenance operations given in the user manual.
- Make sure that there is an easily-accessible outlet with a capacity of no less than 10A closely to where the device is to be installed.
- Periodically perform scheduled maintenance on the device to avoid dirt build-up that could compromise the correct, safe operation of the unit.
- Before any type of work is done on the machine, disconnect the power supply.
- Do not touch the head heating line with bare hands or metal objects. Do not perform any operation inside the printer immediately after printing because the head and motor tend to become very hot.

GENERAL INSTRUCTIONS

CUSTOM S.p.A. declines all responsibility for accidents or damage to persons or property occurring as a result of tampering, structural or functional modifications, unsuitable or incorrect installations, environments not in keeping with the equipment's protection degree or with the required temperature and humidity conditions, failure to carry out maintenance and periodical inspections and poor repair work.

THE CE MARK AFFIXED TO THE PRODUCT CERTIFY THAT THE PRODUCT SAT-ISFIES THE BASIC SAFETY REQUIREMENTS.

The device is in conformity with the essential Electromagnetic Compatibility and Electric Safety requirements laid down in Directives 2006/95/CE and 2004/108/CE inasmuch as it was designed in conformity with the provisions laid down in the following Standards:

- EN 55022 Class B (Limits and methods of measurements of radio disturbance characteristics of Information Technology Equipment)
- EN 55024 (Information Technology Equipment – Immunity characteristics – Limits and methods of measurement)
- EN 60950-1 (Safety of information equipment including electrical business equipment)

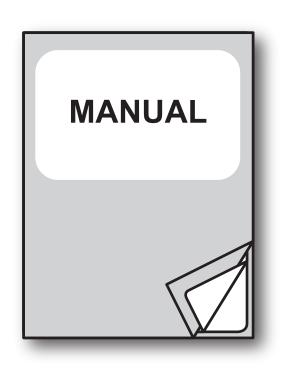


GUIDELINES FOR THE DISPOSAL OF THE PRODUCT

The crossed-out rubbish bin logo means that used electrical and electronic products shall NOT be mixed with unsorted municipal waste. For more detailed information about recycling of this product, refer to the instructions of your country for the disposal of these products.

- Do not dispose of this equipment as miscellaneous solid municipal waste, but arrange to have it collected separately.
- The re-use or correct recycling of the electronic and electrical equipment (EEE) is important in order to protect the environment and the wellbeing of humans.
- In accordance with European Directive WEEE 2002/96/EC, special collection points are available to which to deliver waste electrical and electronic equipment and the equipment can also be handed over to a distributor at the moment of purchasing a new equivalent type.
- The public administration and producers of electrical and electronic equipment are involved in facilitating the processes of the re-use and recovery of waste electrical and electronic equipment through the organisation of collection activities and the use of appropriate planning arrangements.
- Unauthorised disposal of waste electrical and electronic equipment is punishable by law with the appropriate penalties.





For details on the commands, refer to the manual with code **7720000002100**

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1 INTRODUCTION

1.1 Document structure

This document includes the following chapters:

1	INTRODUCTION	information about this document
2	DESCRIPTION	general description of device
3	INSTALLATION	information required for a correct installation of the device
4	OPERATION	information required to make the device operative
5	CONFIGURATION	description of the configuration parameters of the device
6	MAINTENANCE	information for a correct periodic maintenance
7	SPECIFICATION	technical specification for the device and its accessories
8	CONSUMABLES	description and installation of the available consumables for the device
9	ACCESSORIES	description and installation of the available accessories for the device
10	TECHNICAL SERVICE	information required for contacting the technical service

1.2 Explanatory notes used in this manual

NOTE:	Gives important information or suggestions relative to the use of the device
ATTENTION:	Gives information that must be carefully followed to guard against damaging the device
DANGER:	Gives information that must be carefully followed to guard against operator injury or damage



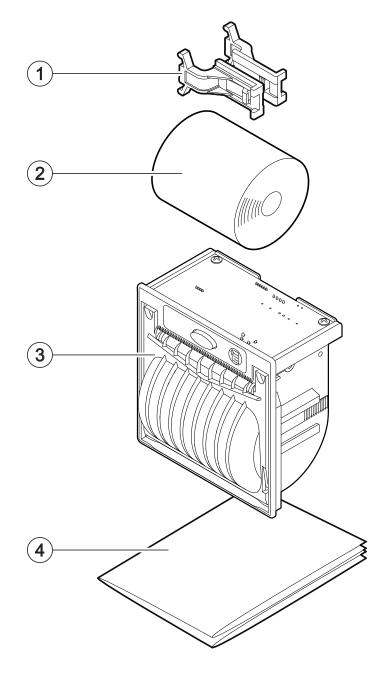
2 **DESCRIPTION**

2.1 Box content

Remove the device from its carton being careful not to damage the packing material so that it may be re-used if the device is to be transported in the future.

Make sure that all the components illustrated below are present and that there are no signs of damage. If there are, contact Customer Service.

- 1. Fixing clips (no. 2)
- 2. Paper roll
- 3. Device
- 4. Installation instructions

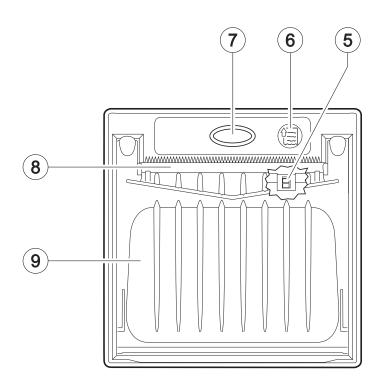


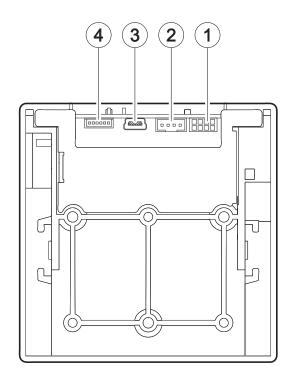
- Open the device packaging.
- Take out the device.
- Take out the rest of the content.
- Keep the box, trays and packing materials in the event the device must be transported/shipped in the future.

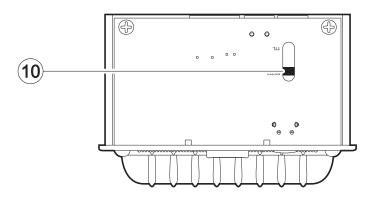
2.2 Device components

- 1. Socket for 8-42 Vdc extended range module
- 2. Power supply port
- 3. USB port
- 4. RS232/TTL serial port
- 5. Sensor for paper detection

- 6. FEED key
- 7. OPEN key and status led
- 8. Paper out with serrated blade
- 9. Paper compartment
- 10. Switch for RS232/TTL serial communication



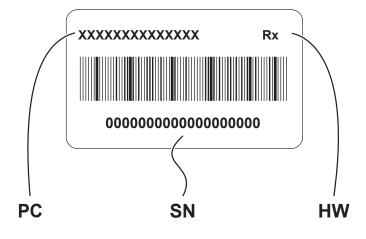




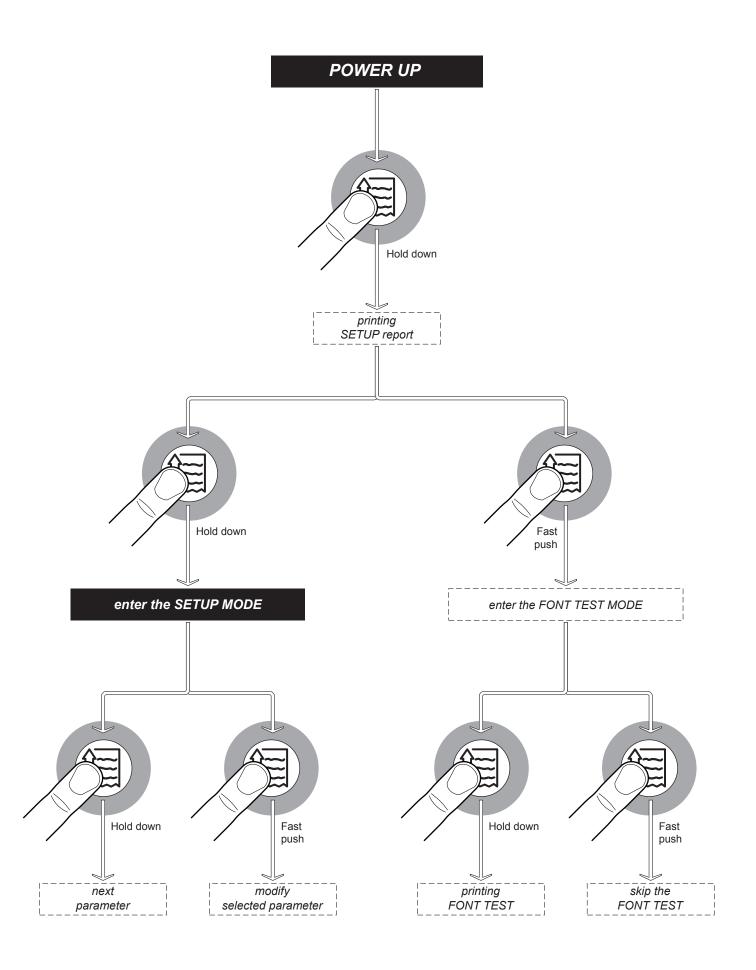


2.3 Product label

- PC = Product code (14 digits)
- SN = Serial number
- HW = Hardware release

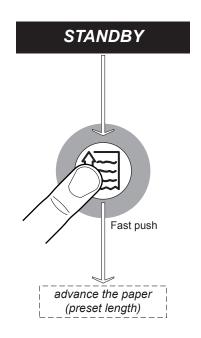


2.4 Key functions: power up





2.5 Key functions: standby





2.6 Status led flashes

The status of the device is sent to the serial port. To get a visual feedback of the signallings is necessary to build a cable to be connected to the serial port (see par. 3.3).

The Status led indicates hardware status of device. Given in the table below are the various led signals and the corresponding device status.

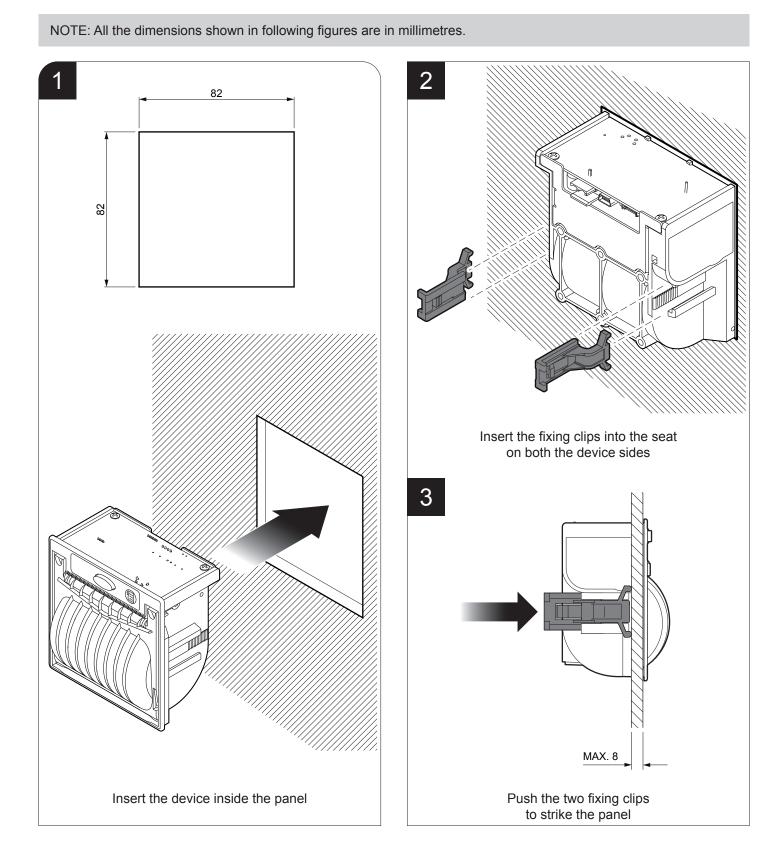
STATUS LED		DESCRIPTION
	OFF	DEVICE OFF
	ON	DEVICE ON: NO ERROR
	x 2	HEADING OVER TEMPERATURE
	x 3	PAPER END
	x 4	POWER SUPPLY VOLTAGE INCORRECT
	x 5	RECEPTION ERRORS (PARITY, FRAME ERROR, OVERRUN ERROR)
	x 6	COMMAND NOT RECOGNIZED
	x 7	COMMAND RECEPTION TIME OUT



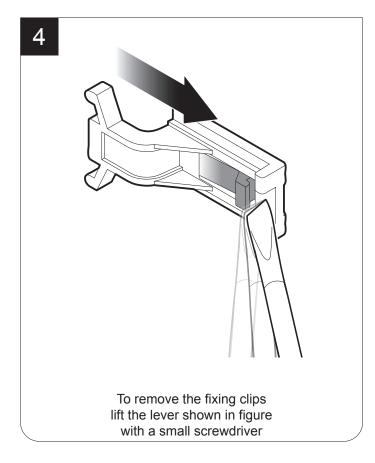
3 INSTALLATION

3.1 "EASYLOCK" fixing system

The device includes two plastic clips for fixing to the panel. This system allows you to lock the machine on the panels of thickness max. 8mm and requires no tools. Proceed as follows:



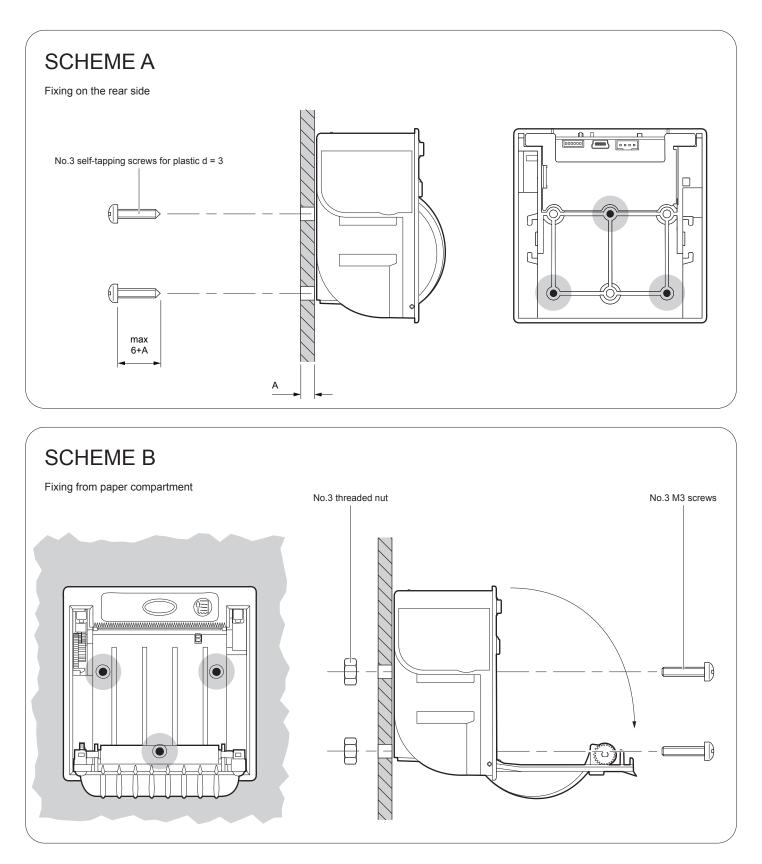
GUSTØM®





3.2 Fixing with screws

The device can be secured to the panel with 3 screws (not supplied) to be tighten on the rear side of the device (SCHEME A) or from the paper compartment (SCHEME B).

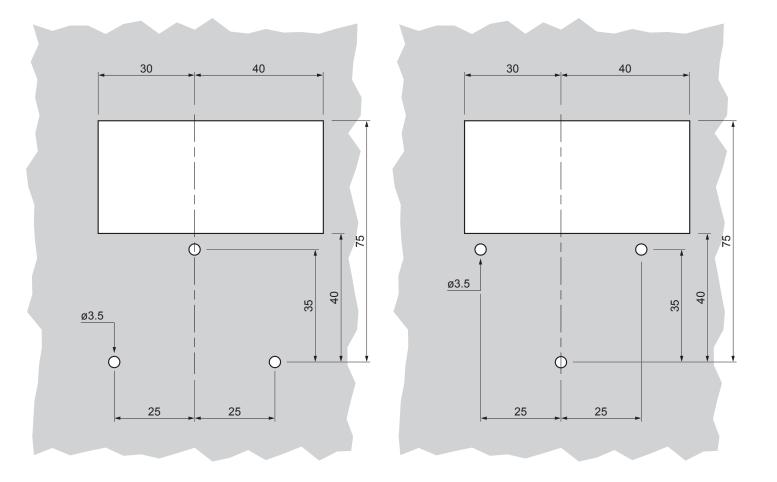


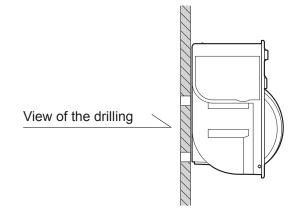
The panel must provide a drilling complies with the measures shown in the following page.



Drilling for mounting on panel with SCHEME A







NOTE: All the dimensions shown in previus figures are in millimetres.



3.3 Collections

The following figure shows the possible connections for the device.

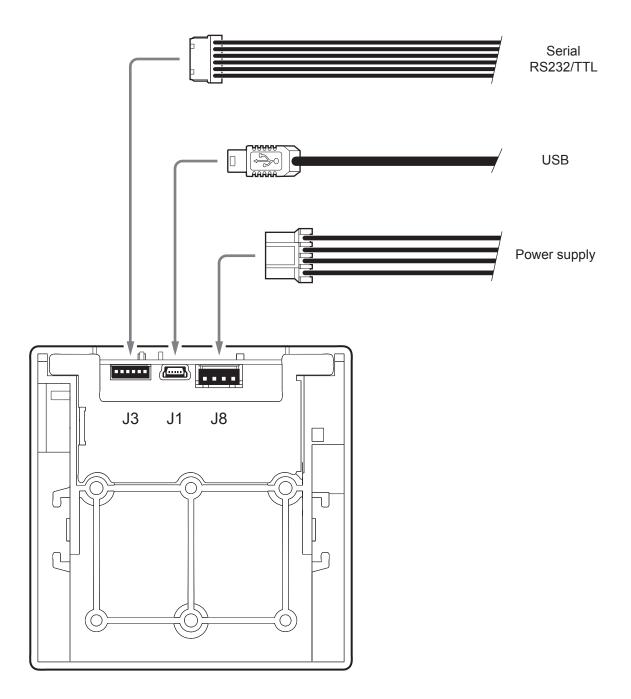
ATTENTION:

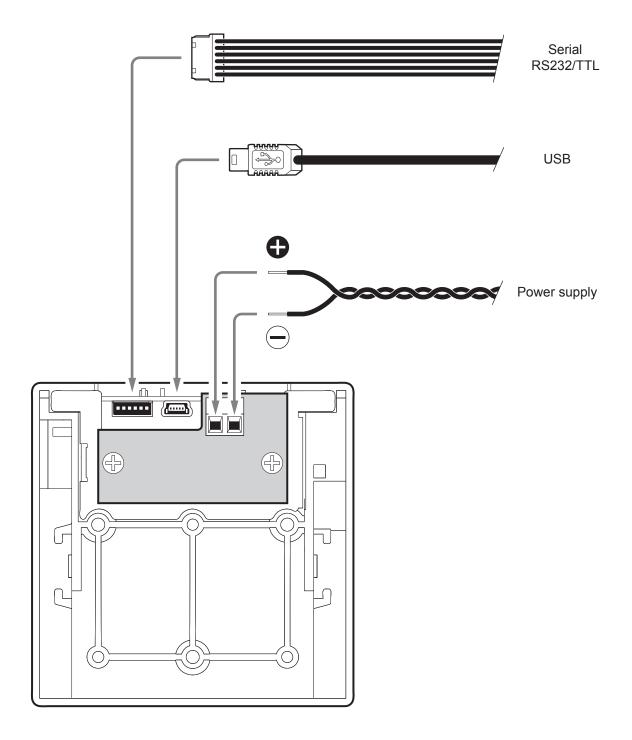
In some using conditions, we recommend the installation of a ferrite core on the power supply cable.

NOTE:

If RS232 and USB connectors are inserted, communication port is USB.

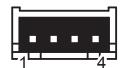
Standard model 4÷7.5 Vdc







3.4 Pinout



POWER SUPPLY JST male connector (S4B-PH-K-S)

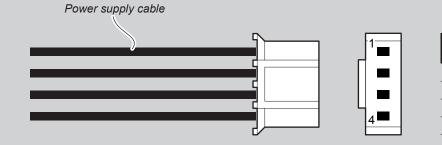
J8	1	GND
	2	GND
	3	+VP
	4	+VCC

ATTENTION:

Respect power supply polarity.

NOTE: Power supply cable

The following figure shows the connector pinout of the power supply cable for the device:



Female JST connector series PHR-4

PII	N Cable color	Segnal
1	Black	GND
2	Black	GND
3	Orange	+VP
4	Red	+VCC



MINI USB INTERFACE

Female MINI USB type B connector

	1	VPLUG
	2	D0-
	3	D0+
	4	n.c.
J1	5	GND
	SH1	GND
	SH2	GND
	SH3	GND
	SH4	GND





RS232/TTL SERIAL INTERFACE

Molex male connector 53048-0610 series (90°)

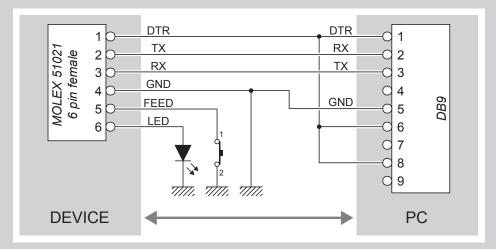
	1	RT
	2	TX During transmission, oscillates between "0" and "1" depending on data
	3	RX During reception, oscillates between "0" and "1" depending on data
J3	4	GND
	5	EXT-FEED
	6	EXT-LED

NOTES:

Given the presence of the RS232 standard, logic value "0" corresponds to a voltage level of between +3Vdc and +15Vdc and logic value "1" corresponds to a voltage level of between -3Vdc and -15Vdc.

Device > PC connection

The following picture shows an example of connection between the device and a personal computer using a 9 pin RS232 serial connectors:

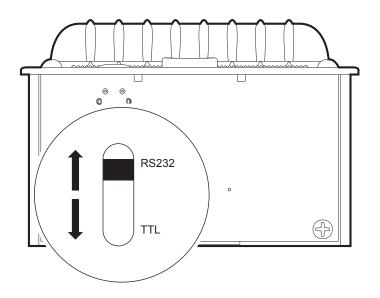


When use a serial cable, we recommend the installation of a ferrite core on the power supply cable.



3.5 Serial port setting

To set the serial port of the device, slide the switch shown in figure in the correct position:



In the serial protocol, the signals which distinguish the communication are TD, RD, and RTS if the RTS/CTS protocol has been selected while, if the XON/XOFF protocol has been selected, the signals are TD and RD.

Transmission format

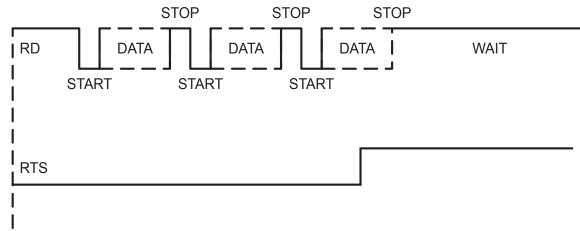


Notes:

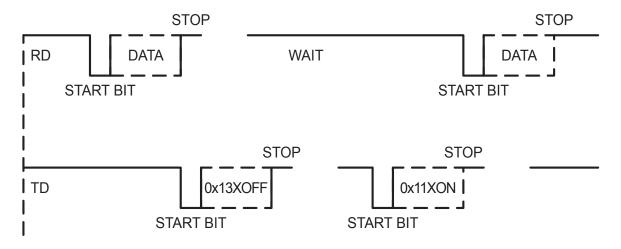
(1) Bit 7 is present if only in the device set-up is enabled 8 bit/char as data length.

(2) Parity Bit is preset if only in the device set-up the parity is enabled.

RTS/CTS Protocol









3.6 Driver and SDK

The drivers are available for the following operating system:

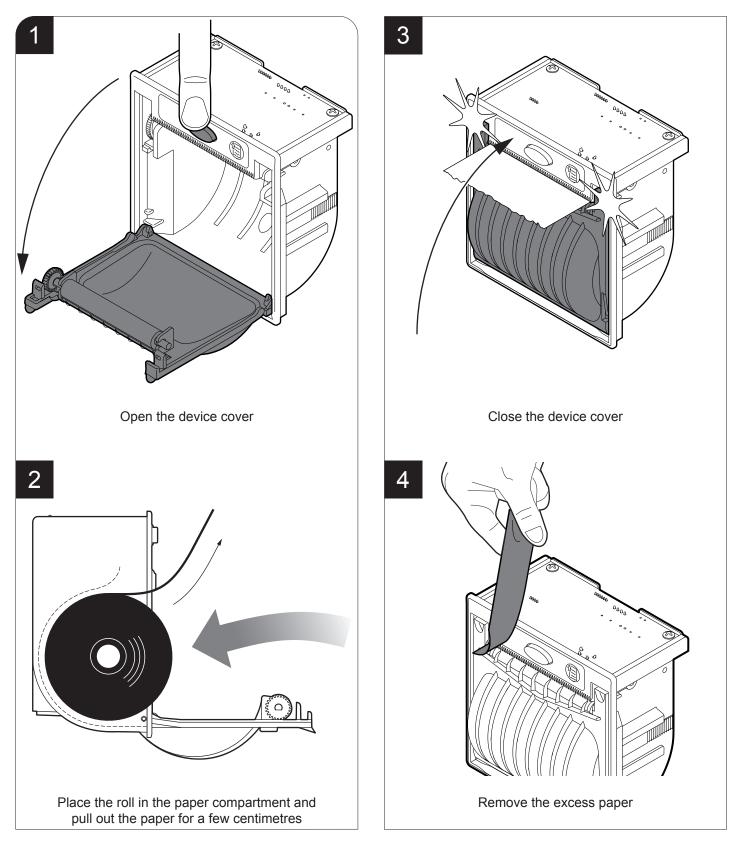
OPERATING SYSTEM	DESCRIPTION	INSTALLATION PROCEDURE
	Driver per Windows XP	
	Driver per Windows VISTA (32/64bit)	From the START menu, press Run and type-in the path where the SW
Windows	Driver per Windows 7 (32/64bit)	was saved on your PC, then click OK. Follow the instructions that appear on the screen to install the driver.
	Driver per Windows 8 (32/64bit)	
Linux		Follow the instruction get back on the README.TXT file. You can find it in the software package downloaded in advance.
Android	SDK for CustomAndroidAPI	Extract the zipped folder to the destination path desired. Follow the instructions present in the software package that you downloaded on how to install and use SDK.



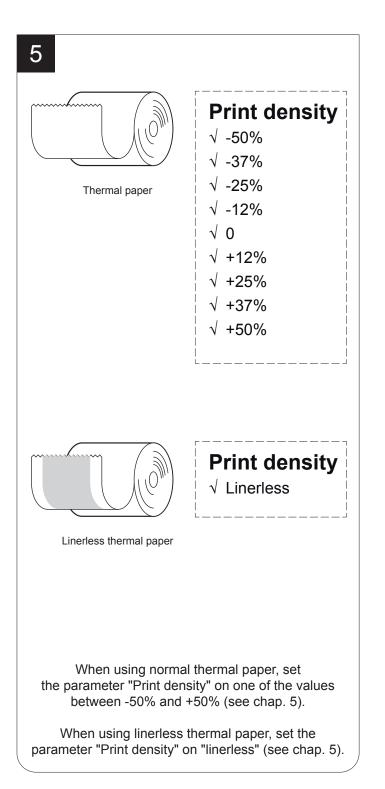
4 OPERATION

4.1 Loading the paper roll

To change the paper proceed as follows. At every change of paper, check inside the device to locate and remove any scraps of paper.





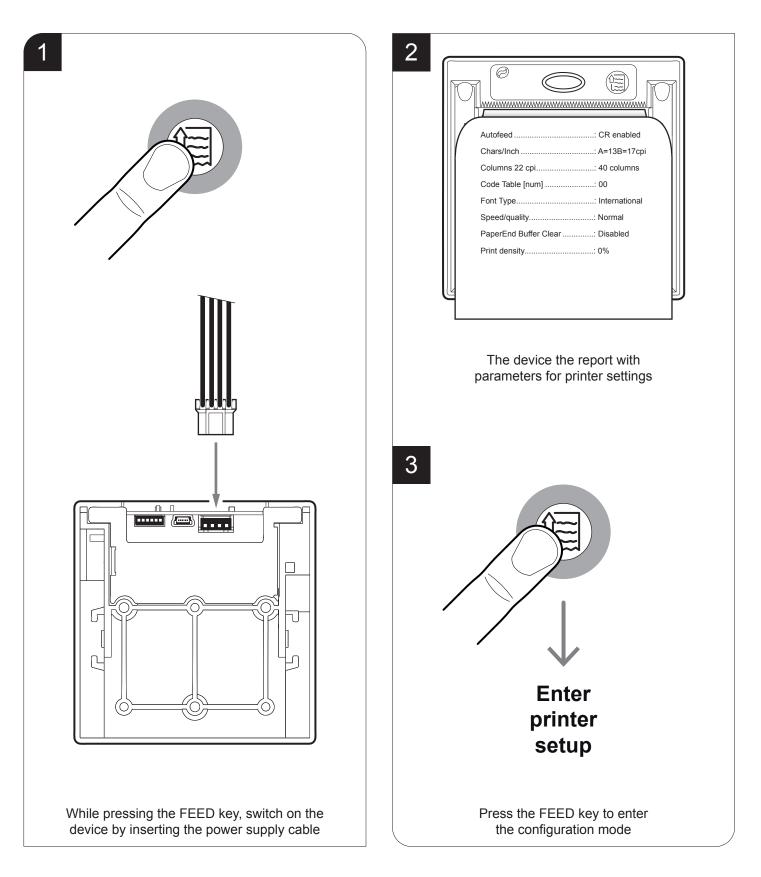




5 CONFIGURATION

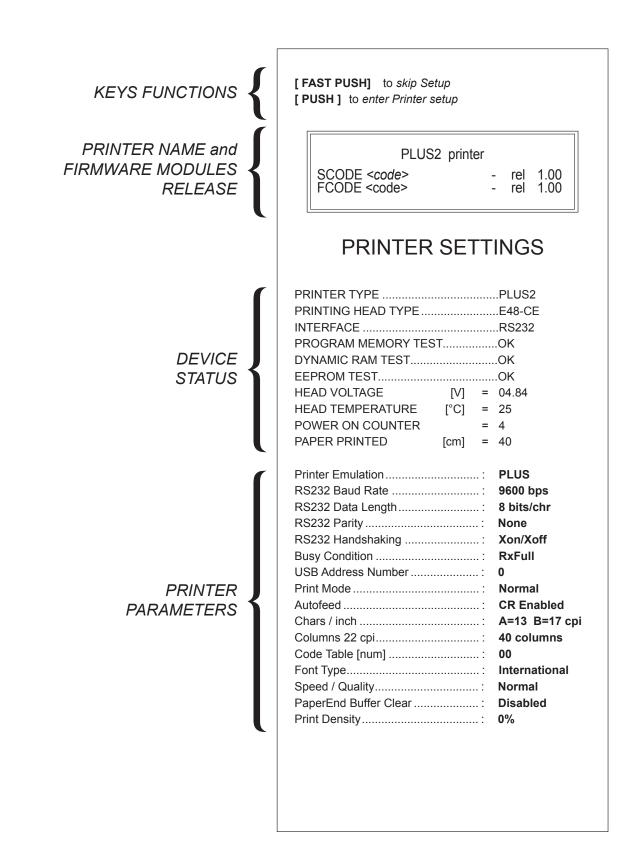
5.1 Configuration mode

To enter the configuration mode and print a SETUP report with the operating parameters of the device, proceed as follows.



5.2 Setup report

The following figure show the setup report of the device. The shown values for parameters are sample values; for the list and the description of device parameters see the following paragraphs.





5.3 Device status

The device operating status is indicated in the configuration print-out in which, next to the name of the components displayed, the following information is given:

DEVICE TYPE	device model
PRINTING HEAD TYPE	print head model
INTERFACE	interface present
PROGRAM MEMORY TEST	OK appears if functioning and NOT OK if faulty
DYNAMIC RAM TEST	OK appears if functioning and NOT OK if faulty
EEPROM TEST	OK appears if functioning and NOT OK if faulty
HEAD VOLTAGE	voltage of the head
HEAD TEMPERATURE	temperature of the head
POWER ON COUNTER	number of power-ups made
PAPER PRINTED	centimetres of paper printed

5.4 Device parameters

This device allows the configuration of the parameters listed in the following table. The parameters marked with the symbol ^D are the default values. Settings remain active even after the device has been turned off and they are stored in non-volatile memory.

PRINTER EMULATION	Available emulations for the device:	
	PLUS ^D CUSTOM/POS	
RS232 BAUD RATE	Communication speed of the serial interface:	
	115200 19200 2400 57600 9600 ^p 1200 38400 4800	
	NOTE: Parameter valid only with serial interface.	
RS232 DATA LENGTH	Number of bit used for characters encoding:	
	7 bits/car 8 bits/car ^D	
	NOTE: Parameter valid only with serial interface.	
RS232 PARITY	Bit for the parity control of the serial interface:	
	None D = parity bit omitted Even = even value for parity bit Odd = odd value for parity bit	
	NOTE: Parameter valid only with serial interface.	
RS232 HANDSHAKING	Handshaking:	
	XON/XOFF ^D = software flow control Hardware = hardware flow control (CTS/RTS)	
	NOTES: Parameter valid only with serial interface.	
	When the receive buffer is full, if handshaking is set to XON/XOFF, the device sends the XOFF (0x13) on the serial port. When the receive buffer has cleared once again, if handshaking is set to XON/XOFF, the device sends the XON (0x11) on the serial port.	
BUSY CONDITION	Activation mode for Busy signal:	
	OffLine/ RXFull =Busy signal is activated when the device is both in OffLine status and the buffer is fullRXFull ^D =Busy signal is activated when the buffer is full	
	NOTE: Parameter valid only with serial interface.	



USB ADDRESS NUMBER	Numerical address code for the univocal identification of the USB device (in case of mor than a USB device connected with the same PC):
	0 ^D 3 6 9
	1 4 7
	2 5 8
PRINT MODE	Printing mode:
	Normal ^D = enables printing in normal writing way Reverse = enables printing rotated 180 degrees
AUTOFEED	Setting of the Carriage Return character:
	CR disabled = Carriage Return disabled CR enabled ^D = Carriage Return enabled
CHARS / INCH	Font selection:
	A = 13 cpi, B = 17 cpi ^D A = 17 cpi, B = 22 cpi
	NOTES: CPI = Characters Per Inch
COLUMNS 22 CPI	Number of columns to use when the 17x22 cpi font is in use (see parameter CHARS INCH):
	40 columns ^D 42 columns
	NOTES: The parameter is printed only with PLUS emulation enabled. To modify the parameter, set the PLUS emulation (see parameter DEVICE EMULATION) and the 17x22cpi font (see parameter CHARS / INCH):
CODE TABLE [num]	Identifier number of the character code table to use. The numeric value of the identifier is made up with the following two parameters for th setting of two digits for the tens and the units:
	Setting the digit for tens:
	CODE TABLE [num x 10] 0 ^D 2 4
	$\begin{array}{cccc} 0 & 2 & 4 \\ 1 & 3 & 5 \end{array}$
	Setting the digit for units:
	CODE TABLE [num x 1]
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	NOTES: See the paragraph 7.7 to learn about the character tables corresponding to the identification numbers set with this parameter.
	The character tables set with this parameter are the same set with the command 0x1B 0x74 (refer to the Commands Manual of the device).

FONT TYPE	Setting of the font type:
	International D=Enables the use of the 256-characters font tablesChinese GB18030=Enables the use of the chinese extended font GB18030-2000Korean PC949=Enables the use of the korean font PC949
	NOTE: When the "INTERNATIONAL" font type is enabled, must be selected the desired character code table (parameter "CODE TABLE"). When the chinese or korean font is enabled, the selection of the character code table is suspended (par. "CODE TABLE").
SPEED / QUALITY	Setting of printing speed and printing quality:
	Normal ^D High Quality
PAPEREND BUFFER CLEAR	Cleaning mode of the data in receive buffer, if the printing is stopped due to lack of paper:
OLLAR	Disabled ^D = The data remain in the receive buffer. When the paper runs out, the device keeps the remaining data in the receive buffer and prints the remaining portion of the ticket after that the new paper is loaded.
	Enabled = When the paper runs out, all data in the receive buffer are deleted.
PRINT DENSITY	Adjusting the printing density:
	-50% -12% +25% Linerless -37% 0 ^D +37% -25% +12% +50%



5.5 Hexadecimal dump

This function is used for the diagnosis of the characters received from the communications port. Characters are printed as hexadecimal code and the corresponding ASCII code (see below). Each line is preceded by a counter in hexadecimal that indicates the number of bytes received.

During the startup, if you hold down the FEED key, the device enters the self-test routine and print the setup report. The device remains in standby until a key is pressed or characters are received through the communication port (Hexadecimal Dump mode). For each character sent, the receipt contain an indication of the hexadecimal and ASCII values (if the characters are underlined, the receive buffer is full). Shown below is an example of a Hexadecimal Dump:

	Н	EX	AD	EC	SIMAL	DUMP
31	32	33	34	35		12345
39	30	31	32	33		90123
37	38	39	75	69		789ui
68	6B	6A	73	64		hkjsd
73	64	66	6B	6A		sdfkj
66	73	64	66	6B		fsdfk
65	69	6F	79	75	•••	eioyu
6F	72	69	75	77	•••	oriuw
6F	75	77	65	72		ouwer
77	65	72	69	6F		werio
72	69	6F	75	77	•••	riouw
6B	6C	73	64	66		klsdf
64	66	6B	73	64		dfksd
73	64	66	6B	6A	•••	sdfkj
66	6B	F2	6A	73		fk≥j
6A	6В	6C	68			jklh





6 MAINTENANCE

6.1 Planning of cleaning operations

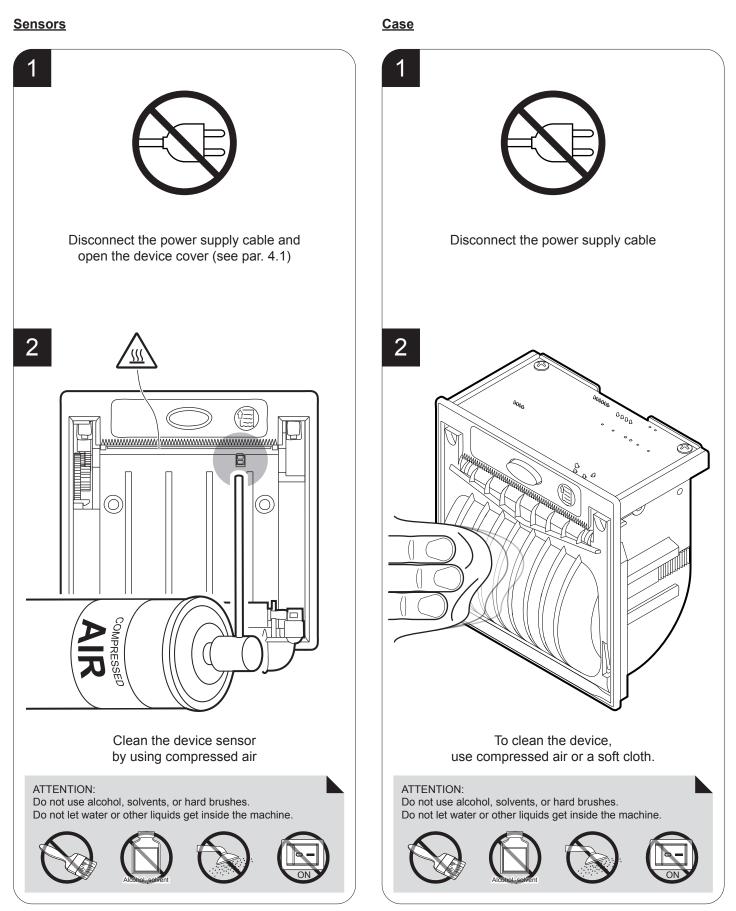
The regular cleaning of the device keeps the print quality and extends its life. The following table shows the recommended planning for the cleaning operations.

EVERY PAPER CHANGE	
Printhead	Use isopropyl alcohol
Rollers	Use isopropyl alcohol
EVERY 5 PAPER CHANGES	
Paper path	Use compressed air
Sensors	Use compressed air
EVERY 6 MONTHS OR AS NEEDED	
Device case	Use compressed air or a soft cloth

For specific procedures, see the following pages.

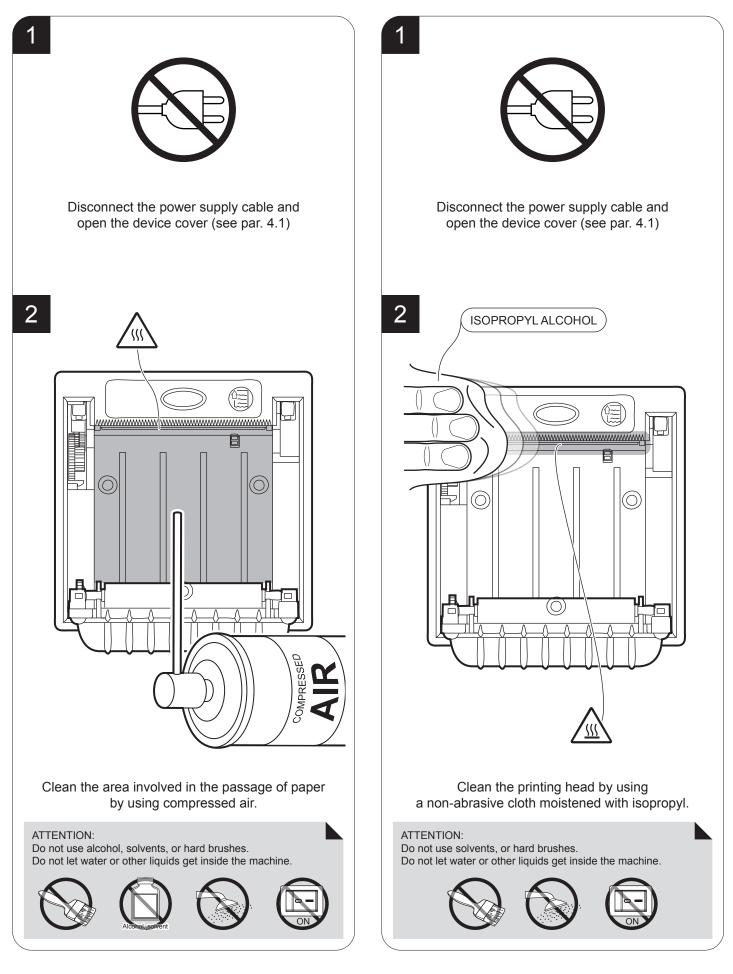
6.2 Cleaning

For periodic cleaning of the device, see the instructions below

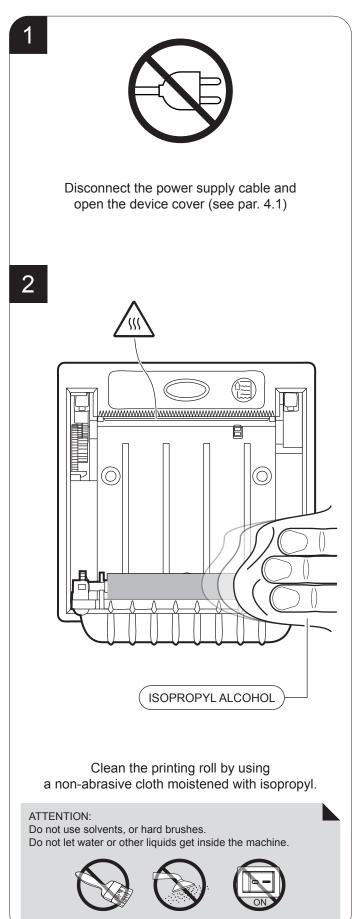




Paper path



Printing roller





6.3 Upgrade firmware

9. Select the serial communication port (ex. COM1):

WARNING: During communication between PC/device for the firmware update it is strictly forbidden to disconnect the communication cable or to remove the power supply of the devices not to endanger the proper functioning of the device.

NOTES:

The latest firmware of the device is available in the download area of the web site www.custom.biz

Install on the PC used for device upgrading the UPG-CEPRN software available in the download area of the web site www.custom.biz.

UPDATE VIA SERIAL INTERFACE

Proceed as follows:

- 1. Write down the product code (14 digits) printed on the product label (see par. 2.3).
- 2. Go to the web site www.custom.biz and download the appropriate firmware release from the DOWNLOAD area.
- 3. Print the SETUP report (see chapter 5).
- 4. Switch OFF the device.
- 5. Connect the device to the PC using a serial cable (see paragraph 3.3).
- 6. Switch ON the device.
- 7. Launch the software UPGCEPRN.
- 8. Select the update file .PSW location:

ø	Firmware rel.: Hardware rel.: PSW Version : File [*.cfg]: ile (*.psw):	None None None None	Printer type: Selected port.:	None None
<u>е</u> г	Select (Cr		Begin upgr	ade
	le status: grade thread active		Port config:	t not init

Select the system con Avaible port COM1 COM2 COM3 COM4 COM5 COM6 COM7 COM7 File (*.psw);	Immunication port X Image: Cancel Cancel Selected port COM1
C:\PLUS2.PSW C:\PLUS2.PSW Data flush status	
Upgrade status: Ready to start.	Port config: Communication port not init

- Detecting and setting of the parameters necessary for serial communication are performed automatically and then updating begins.
- 11. After a few minutes a message on the screen warns that the update is completed.

Upgrade	ОК	x
	Upgrade succesfully com	pleted.
	ОК	

12. Print a new SETUP report to verify the new firmware release (see chapter 5).

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UPDATE VIA USB INTERFACE

ATTENTION:

Only during the firmware update, the connection between PC and device must be direct, without the use of HUB devices.

Only during the firmware update, do not connect or disconnect other USB devices.

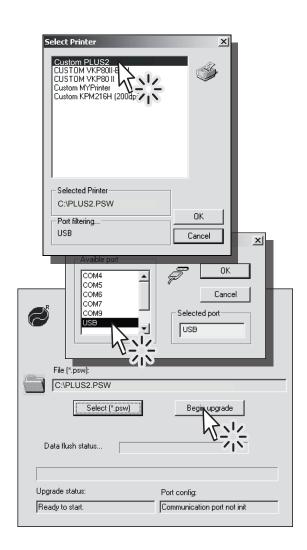
NOTE: For communication via USB you must install on PC the device driver available in the download area of the web site www.custom.biz.

Proceed as follows:

- 1. Write down the product code (14 digits) printed on the product label (see par. 2.3).
- Go to the web site www.custom.biz and download the appropriate firmware release from the DOWNLOAD area.
- 3. Print the SETUP report (see chapter 5).
- 4. Switch OFF the device.
- 5. Connect the device to the PC using a USB cable (see paragraph 3.3).
- 6. Switch ON the device.
- 7. Launch the software UPGCEPRN.
- 8. Select the update file .PSW location:

Ö	Firmware rel.: Hardware rel.: PSW Version : File [*.cfg]:	None None None None	Printer type: Selected port.:	None None
	ile (*.psw):		Begin upgr	ade
	de status: grade thread active		Port config: Communication po	rt not init

9. Select item USB and then select the USB device among those proposed (ex. PLUS2):



10. After a few minutes a message on the screen warns that the update is completed.



11. Print a new SETUP report to verify the new firmware release (see chapter 5).



7 SPECIFICATION

7.1 Hardware specifications

GENERAL		
Sensors	Head temperature, paper presence	
Emulations	PLUS CUSTOM/POS	
Printing driver	Windows XP, VISTA (32/64bit), Windows 7 (32/64bit), Windows 8 (32/64bit) Linux, Android	
INTERFACES		
USB port	12 Mbit/sec (USB 2.0 full speed)	
RS232/TTL serial port	from 1200 to 115200 bps	
MEMORIES		
Receive buffer	16 Kbytes	
Flash memory	4 Mbytes (+768Kbytes internal)	
RAM memory	128 Kbytes	
Graphic memory	Logos dynamic management (max 32 Kbytes graphic memory)	
DEVICE		
Resolution	203 dpi (8 dot/mm)	
Printing method	Thermal, fixed head	
Printing width	48 mm	
Printing mode	Normal, 90°, 180°, 270°	
Printing format	Height/Width from 1 to 8, bold, reverse, underlined, italic	
Character fonts	54 character code tables (see par. 7.7) Extended chinese GB18030-2000 Korean PC949	

Printable barcode	UPCA, UPCE, EAN13, EAN8, CODE39, ITF, CODABAR, CODE93, CODE128, CODE32, PDF417, QRCODE
Printing speed (1) (2)	Normal = 40 mm/sec High Quality = 30 mm/sec
PAPER	
Type of paper	Thermal rolls, heat-sensitive side on outside of roll Linerless thermal rolls (see paragraph 7.6)
Paper width	57 mm ± 0,5 mm
Paper weight	from 55 g/m ² to 70 g/m ²
Paper thickness	from 63 μm to 85 μm
Recommended types of paper	KANZAN KF50 and KP460 MITSUBISHI PG5075
External roll diameter	max. 50 mm
External roll core diameter	12 mm (+ 1mm)
Paper end	Not attached to roll core
Core type	Cardboard or plastic
DEVICE ELECTRICAL SPECIFICATIONS	
Power supply	
standard model	From 4 to 7.5 Vdc $\pm 10\%$ (optional external power supply)
model with the extended range module plugged	From 8 to 42 Vdc $\pm 10\%$ (optional external power supply)
Medium consumption (2)	
standard model	1.25 A (4Vdc) 0.7 A (7.5Vdc)
model with the extended range module plugged	0.21 A (8Vdc) 1 A (42Vdc)
Stand-by consumption	

standard model	0.060 A
model with the extended range module plugged	0.060 A
ELECTRICAL SPECIFICATIONS POWER SUPPLY cod. 964GE010000003	
Power supply voltage	from 90 Vac to 264 Vac
Frequency	from 50 Hz to 60 Hz
Current (output)	5 A
Power	25W
ENVIRONMENTAL CONDITIONS	
Operating temperature	from -20 °C to +70 °C
Relative humidity	from 10% Rh to 85% Rh
Storage temperature	from -20 °C to +70 °C
Storage relative humidity	from 10% Rh to 90% Rh

NOTES:

(1): Respecting the regular schedule of cleaning for the device components.
(2): Referred to a standard CUSTOM receipt (L=10cm, Density = 12,5% dots on).

7.2 Character specifications in CUSTOM/POS and PLUS emulation

Character set		3	
Character density	13 cpi	17 cpi	22 cpi
Number of columns	24	32	40/42
Chars / sec	360	480	640
Lines / sec	15	15	15
Characters (L x H mm)-Normal	2 x 3	1,5 x 3	1,125 x 3

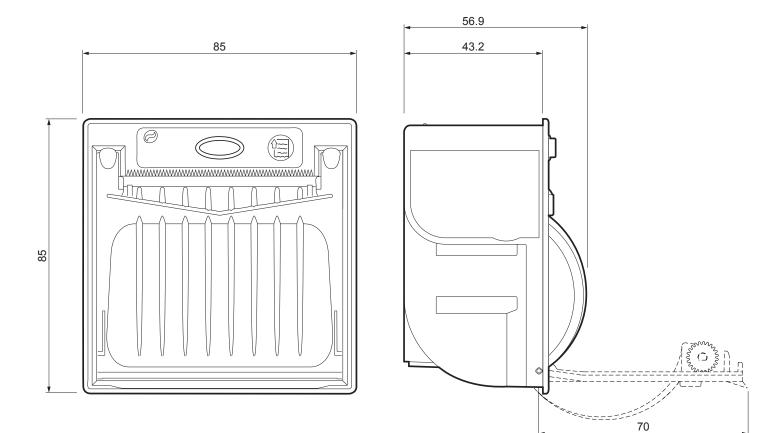


7.3 Device dimensions

Length	56.9 mm
Length with cover open	111 mm
Height	85 mm
Width	85 mm
Weight	141 g

NOTE:

Dimensions referred to devices without paper roll. All the dimensions shown in following figures are in millimetres.

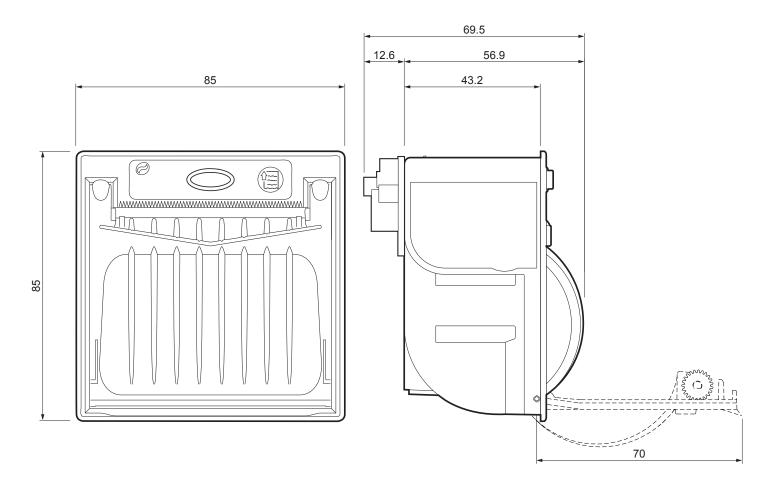


7.4 Device dimensions with extended range module

Length	69.5 mm
Length with cover open	123.6 mm
Height	85 mm
Width	85 mm
Weight	146 g

NOTE:

Dimensions referred to devices without paper roll. All the dimensions shown in following figures are in millimetres.

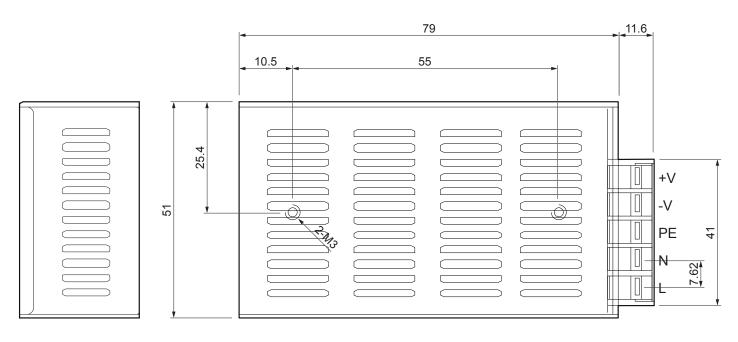


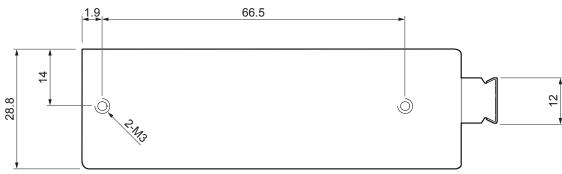


7.5 Power supply dimensions cod. 964GE010000003

Length	90.6 mm
Height	28,8 mm
Width	51 mm

NOTE: All the dimensions shown in following figures are in millimetres.

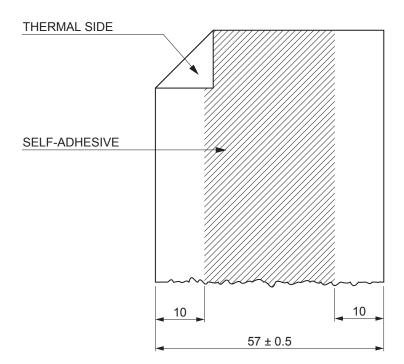




7.6 Paper specification

Linerless thermal paper

LINERLESS paper is a thermal paper with a self-adhesive layer without liner (on non-thermal side). For the better use with the device the self-adhesive area must comply with the following dimensions:



LINERLESS PAPER SPECIFICATI	ONS
Self-adhesive	Water based acrylic
Self-adhesive mass	Permanent 16 gr/mq ±2gr
Total thickness	93 μm ±2 μm
Total weight	96 gr/mq ±2gr
Recommended temperature	
Stick	from +15°C to +40°C
Storage	from +10°C to +40°C
Resistance after stick	from -10°C to +50°C

WARNING:

Do not set "Print Density" parameter on "Linerless" mode during the device SETUP (see user manual) with common thermal paper.

In "Linerless" mode, if the device is turned off a few hours, the first row of the press could be compressed, during the turning on. It is recommended to perform one or more paper FEED before printing.



7.7 Character sets in CUSTOM/POS and PLUS emulation

The device has 3 internal fonts with a width of 13, 17, 22 cpi, which can be associated with one of the coding tables stored on the device.

To know the coding tables actually stored on the device, print the font test (see par.2.4).

The selection of the font and the encoding table is done via command (see the commands manual of the device) or through the Setup procedure by properly setting the parameter "Chars / Inch", "Code Table" and "Font Type" (see par. 5.4).

The following is the complete list of coding tables that can be installed on the device.

<codetable></codetable>	(Character Tables	
0	PC437 - U.S.A., Standard Europe		
1	Katakana		
2	PC850 - Multilingual		
3	PC860 - Portuguese		
4	PC863 - Canadian/French		
5	PC865 - Nordic		
11	PC851 - Greek		on request
12	PC853 - Turkish		on request
13	PC857 - Turkish		on request
14	PC737 - Greek		on request
15	ISO8859-7 - Greek		on request
16	WPC1252		
17	PC866 - Cyrillic 2		
18	PC852 - Latin 2		on request
19	PC858 for Euro symbol at position 213		
20	KU42 - Thai		on request
21	TIS11 - Thai		on request
26	TIS18 - Thai		on request
30	TCVN_3 - Vientamese		on request
31	TCVN_3 - Vientamese		on request
32	PC720 - Arabic		on request
33	WPC775 - Baltic Rim		on request



<codetable></codetable>		Character Tables	
34	PC855 - Cyrillic		on request
35	PC861 - Icelandic		on request
36	PC862 - Hebrew		
37	PC864 - Arabic		
38	PC869 - Greek		on request
39	ISO8859-2 - Latin 2		on request
40	ISO8859-15 - Latin 9		on request
41	PC1098 - Farci		on request
42	PC1118 - Lithuanian		on request
43	PC1119 - Lithuanian		on request
44	PC1125 - Ukranian		on request
45	WPC1250 - Latin 2		
46	WPC1251 - Cyrillic		
47	WPC1253 - Greek		
48	WPC1254 - Turkish		
49	WPC1255 - Hebrew		
50	WPC1256 - Arabic		
51	WPC1257 - Baltic Rim		
52	WPC1258 - Vientamese		
53	KZ1048 - Kazakhstan		on request
255	Space page		



8 CONSUMABLES

The following table shows the list of available consumables for device:

DESCRIPTION

CODE

673000000344

THERMAL PAPER ROLL

Width = 57mm Ø external = 50mm Ø core = 12mm Length = 30 mt

LINERLESS THERMAL PAPER ROLL

Width = 57mm Ø external = 50mm Ø core = 12mm Length = 16 mt



673000000346



9 ACCESSORIES

The following table shows the list of available accessories for device:

DESCRIPTION

CODE

964GE01000003

POWER SUPPLY (for technical specifications, see the paragraph 7.1)

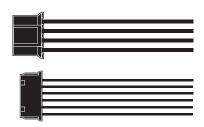
974CW010000315

GREY FRAME 112X112 (WITH CLIPS) (see the paragraph 9.1)



4400000033000

CABLE KIT POWER SUPPLY + SERIAL/TTL INTERFACE 5 VOLT (500mm)



979CW18000001

8÷42 VDC EXTENDED RANGE MODULE

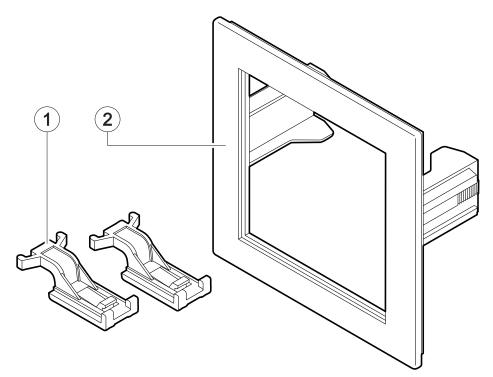


9.1 Grey frame 112X112

An adaptor frame is available and makes the device mechanically compatible with F and P series panel devices.

The kit is composed of:

- 1. Fixing clips (No.2)
- 2. Adaptor frame



WARNING:

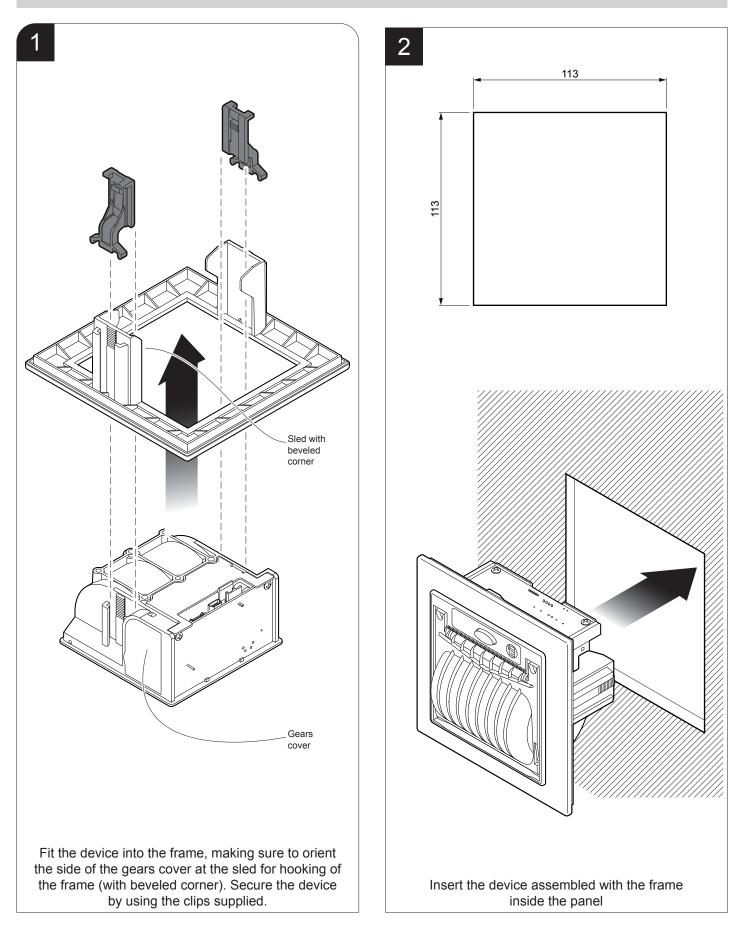
Pay attention that the external frame, the cover and the device frame are made from polypropylene, so it's better to keep away from:

Ammonia, Methanol, Acetone, Washing-up liquid, Benzol, Dishwasher liquid, Hydrocarbon, Dichloromethane, Perchloroethylene, Ethylene, Trichlorethylene, Toluene.

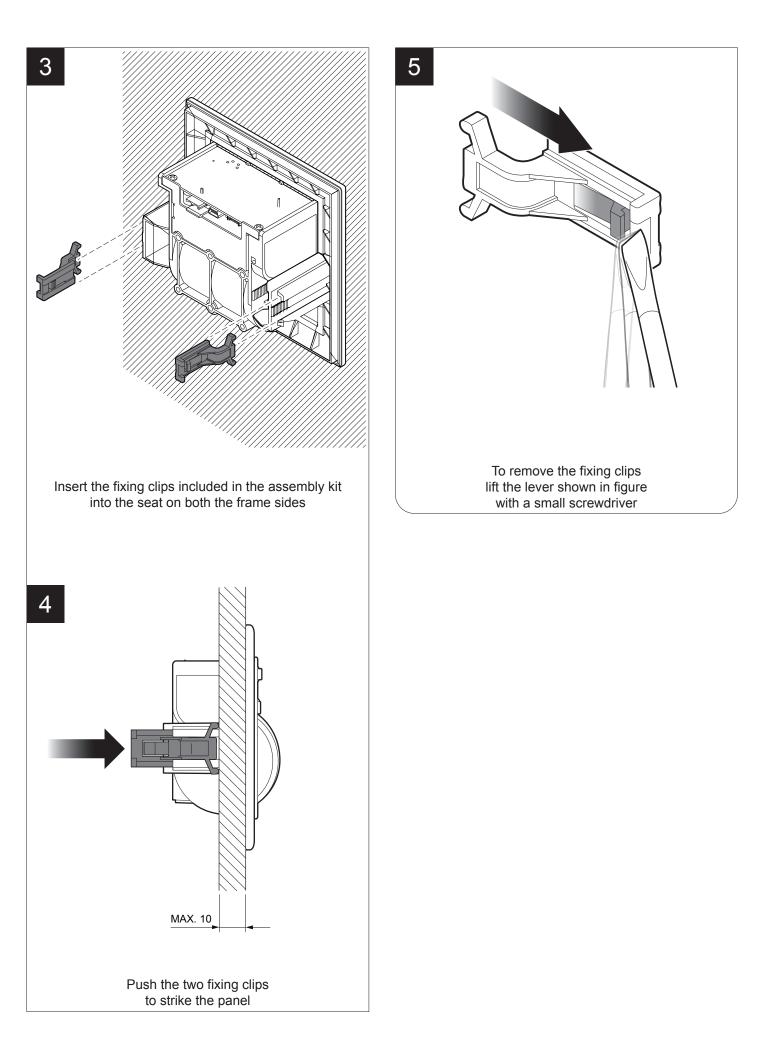


Assembly instructions

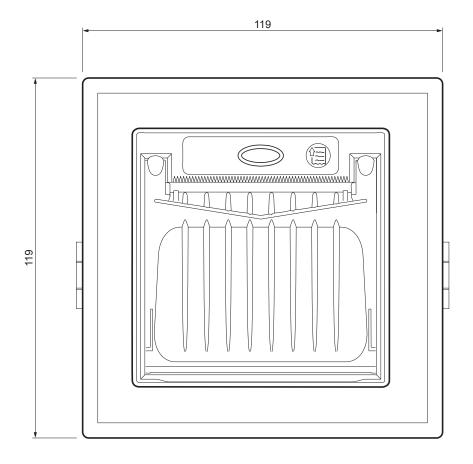
NOTE: All the dimensions shown in following figures are in millimetres.

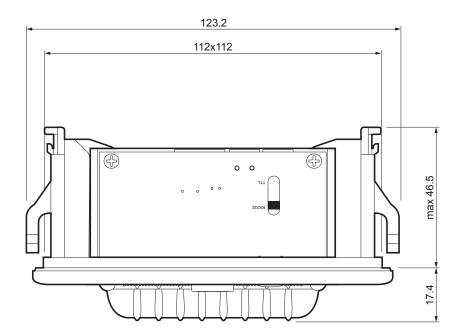






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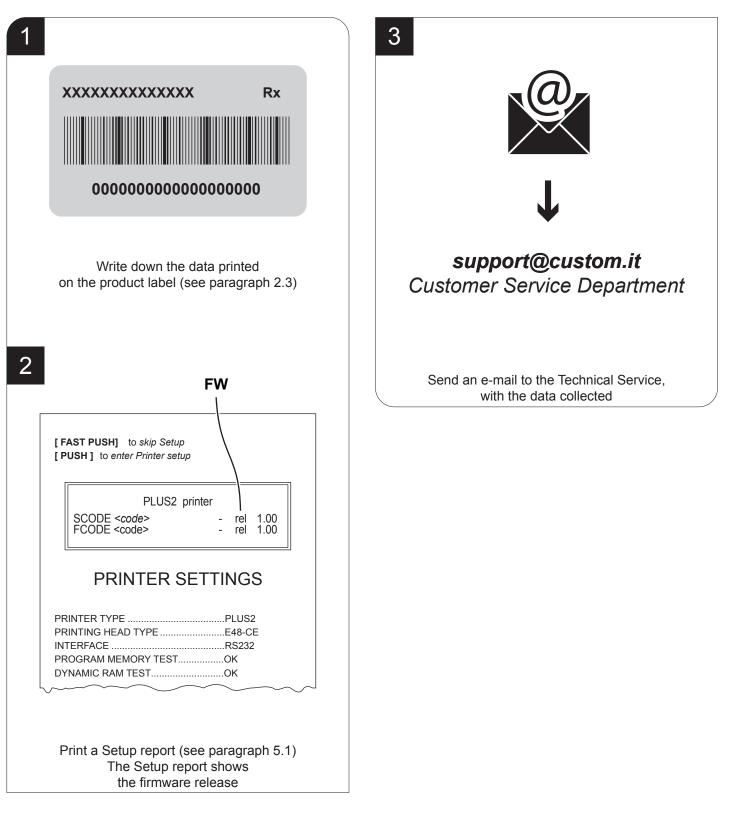


10 TECHNICAL SERVICE

In case of failure, contact the Technical Service by sending an e-mail to support@custom.it detailing:

- 1. Product code
- 2. Serial number
- 3. Hardware release
- 4. Firmware release

To get the necessary data, proceed as follows:





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CUSTOM S.p.A. World Headquarters Via Berettine, 2/B - 43010 Fontevivo, Parma ITALY Tel. +39 0521 680111 - Fax +39 0521 610701 info@custom.biz - www.custom.biz

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