USER MANUAL

PLUS4

CUSTOM S.p.A. Str. Berettine 2

43010 Fontevivo (PARMA) - Italy

Tel.: +39 0521-680111 Fax: +39 0521-610701 http: www.custom.biz

Customer Service Department: Email: support@custom.it

© 2013 CUSTOM S.p.A. - Italy.

All rights reserved. Total or partial reproduction of this manual in whatever form, whether by printed or electronic means, is forbidden. While guaranteeing that the information contained in it has been carefully checked, CUSTOM S.p.A. and other entities utilized in the realization of this manual bear no responsibility for how the manual is used.

Information regarding any errors found in it or suggestions on how it could be improved are appreciated. Since products are subject to continuous check and improvement, CUSTOM S.p.A. reserves the right to make changes in information contained in this manual without prior notification.

The pre-installed multimedia contents are protected from Copyright CUSTOM S.p.A. Other company and product names mentioned herein may be trademarks of their respective companies. Mention of third-party products is for informational purposes only and constitutes neither an endorsement nor a recommendation. CUSTOM S.p.A. assumes no responsibility with regard to the performance or use of these products.

THE IMAGES USED IN THIS MAN-UAL ARE USED AS AN ILLUSTRA-TIVE EXAMPLES. THEY COULDN'T REPRODUCE THE DESCRIBED MODEL FAITHFULLY.

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)



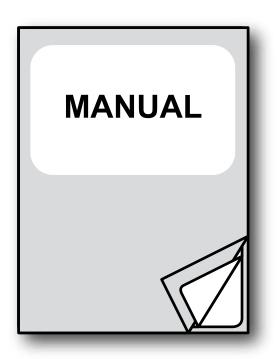
GUIDELINES FOR THE DISPOSAL OF THE PRODUCT

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.



The format used for this manual improves use of natural resources reducing the quantity of necessary paper to print this copy.



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

TABLE OF CONTENTS

1	INTRODUCTION	9
1.1	Document structure	9
1.2	Explanatory notes used in this manual	9
2	DESCRIPTION	. 11
2.1	Unpacking the device	. 11
2.2	Device component: external views	. 12
2.3	Device component: internal view	. 14
2.4	Product label	. 14
2.5	Key functions	
2.6	Status led flashes	. 16
3	INSTALLATION	17
3.1	"EASYLOCK" fastening	. 17
3.2	Fixing with screws (model without interconnection module)	. 19
3.3	Connections	. 20
3.4	Pinout (model without interconnection module)	
3.5	Pinout (model with interconnection module)	
3.6	Serial port setting (model without interconnection module)	
3.7	Parallel port setting (model with interconnection module)	
3.8	Driver and SDK	. 32
4	OPERATION	. 33
4.1	Adjusting paper width	. 33
4.2	Paper roll insertion	
5	CONFIGURATION	37
5.1	Configuration mode	
5.2	Setup report	
5.3	Printer status	
5.4	Printer parameters	. 41
5.5	Hexadecimal dump	. 44
6	MAINTENANCE	. 45
6.1	Planning of cleaning operations	
6.2	Cleaning	
63	Firmware ungrade	40



7	SPECIFICATIONS	51
7.1	Hardware specifications	51
7.2	Character specifications in ESC/POS™ emulation	54
7.3	Device dimensions	54
7.4	Power supply dimensions cod.963GE020000003 (optional)	57
7.5	Character sets in ESC/POS™ emulation	58
8	CONSUMABLES	59
9	ACCESSORIES	61
9.1	Interconnection module (models without interconnection module)	62
	,	
10	TECHNICAL SERVICE	63



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 ALIGNMENT information required for managing the paper alignment

11 TECHNICAL SERVICE information required for contacting the technical service

12 ADVANCED FUNCTIONS information about special functions available with the device

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



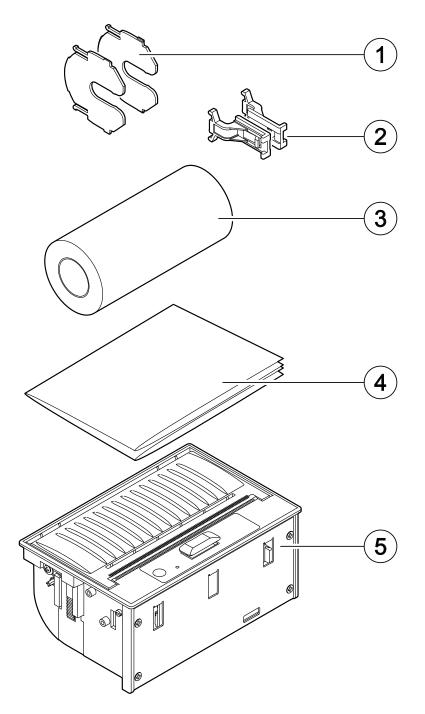
2 DESCRIPTION

2.1 Unpacking the device

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

- Paper adjustment guides (already assembled)
- 2. Fixing hooks
- Paper roll (already inserted into the device)
- 4. Installation instruction
- Device



- · Open the device packaging.
- Remove the packing frame content and remove the packing frame.
- Take out the device.
- Keep the box, trays and packing materials in the event the printer must be transported/shipped in the future.

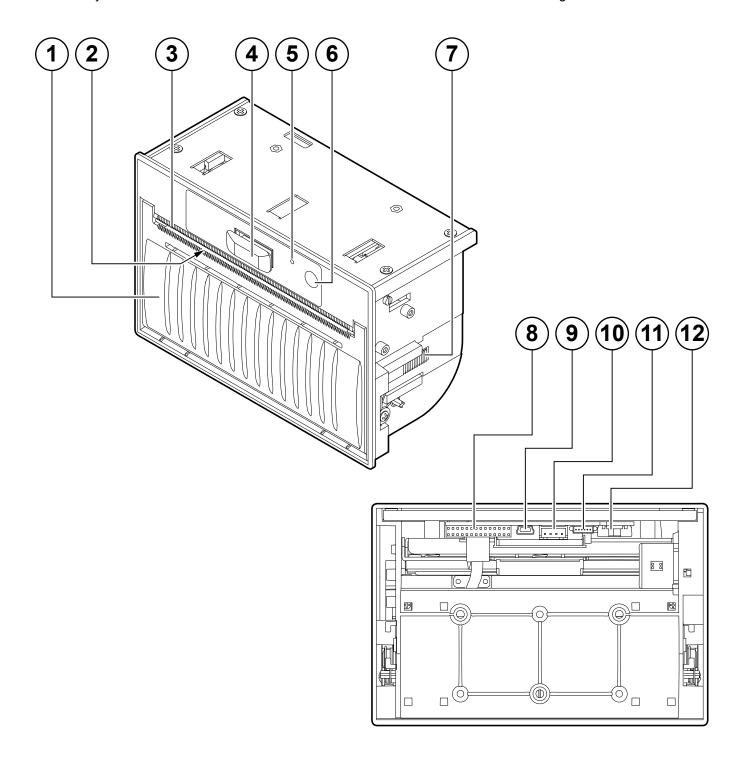


2.2 Device component: external views

Model without interconnection module

- 1. Frontal cover
- 2. Paper output
- 3. Serrated blade for manual tear off
- 4. Release lever for cover
- 5. Status led
- 6. FEED key

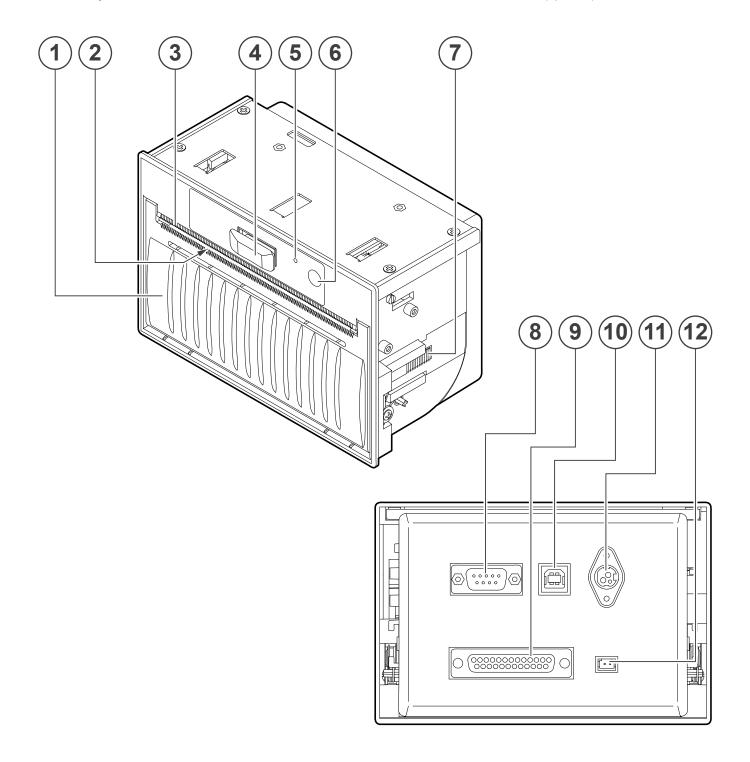
- 7. Seat for fixing hook
- 8. Connector for interconnection module (optional)
- 9. USB interface connector (miniUSB)
- 10. Power supply connector
- 11. RS232/TTL serial interface connector
- 12. Switch for serial interface setting



Model with interconnection module

- 1. Frontal cover
- 2. Paper output
- 3. Serrated blade for manual tear off
- 4. Release lever for cover
- 5. Status led
- 6. FEED key

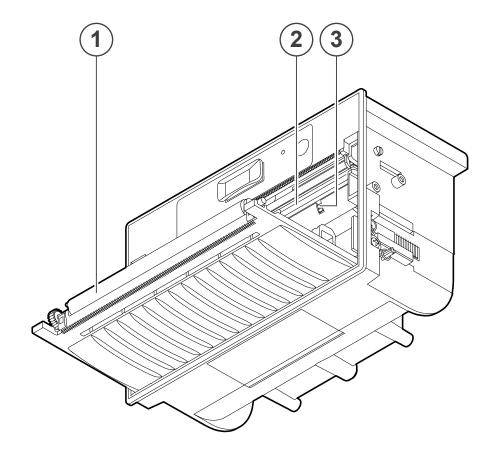
- 7. Seat for fixing hook
- 8. RS232/TTL serial interface connector
- 9. Parallel interface connector
- 10. USB interface connector (type B)
- 11. Power supply connector
- 12. Connector for external device (optional)





2.3 Device component: internal view

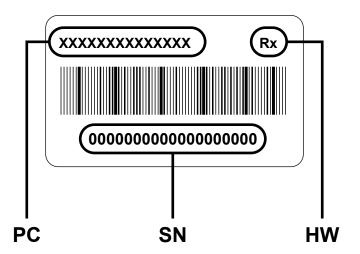
- 1. Printing roller
- 2. Printing head with temperature sensor
- Sensors for detecting paper presence



2.4 Product label

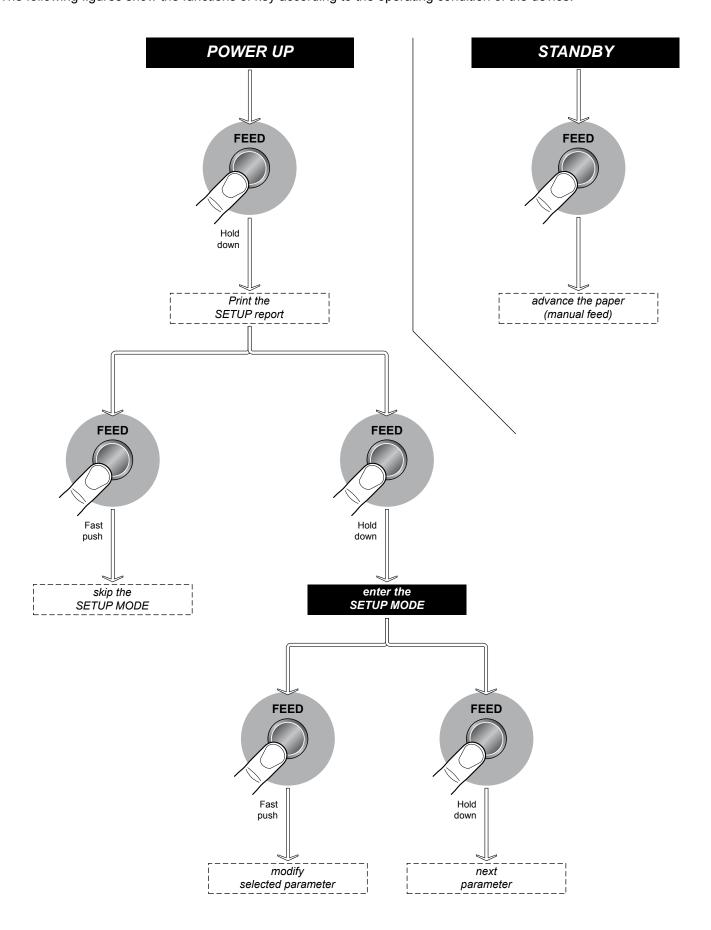
PC = Product code (14 digits)

SN = Serial number HW = Hardware release



2.5 Key functions

The following figures show the functions of key according to the operating condition of the device.



2.6 Status led flashes

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

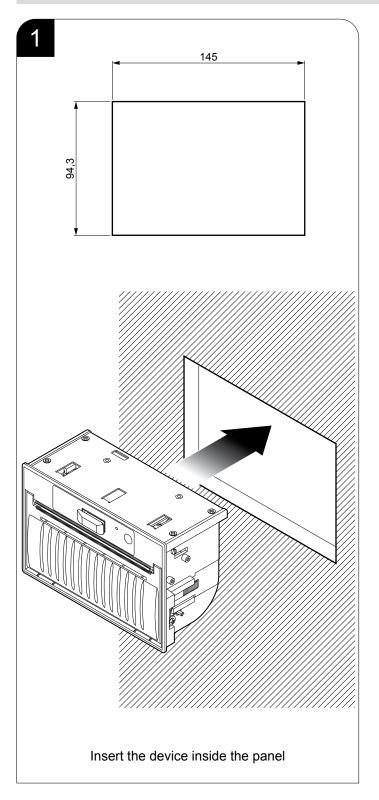
	STATUS LED		DESCRIPTION
-		OFF	PRINTER OFF
GREEN		ON	PRINTER ON: NO ERROR
		x 1	RECEIVE DATA
GREEN COMMUNICATION		x 2	RECEPTION ERRORS (PARITY, FRAME ERROR, OVERRUN ERROR)
STATUS		х 3	COMMAND NOT RECOGNIZED
		x 4	COMMAND RECEPTION TIME OUT
		x 2	HEADING OVER TEMPERATURE
		x 3	PAPER END
YELLOW RECOVERABLE ERROR		x 4	PAPER JAM
		x 5	POWER SUPPLY VOLTAGE INCORRECT
		x 6	COVER OPEN
RED UNRECOVERABLE ERROR		3 x	RAM ERROR

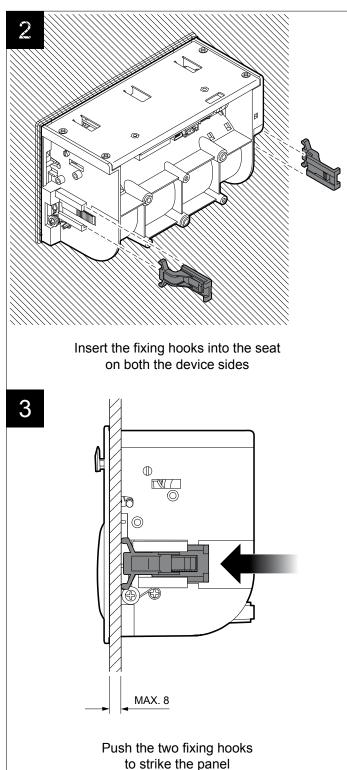
3 INSTALLATION

3.1 "EASYLOCK" fastening

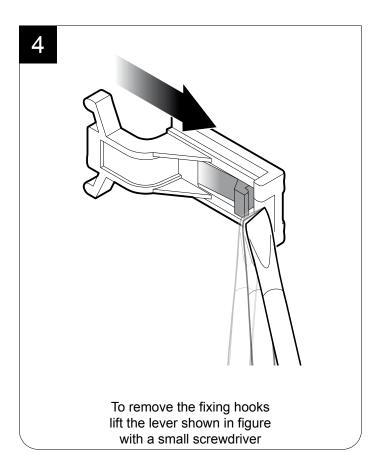
The device includes two plastic hooks for the "Easylock" fastening. This system allows to fix the device to panels of variable thickness from a minimum of 3mm and a maximum of 8mm and requires no tools. To use the fixing hooks, proceed as follows:

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





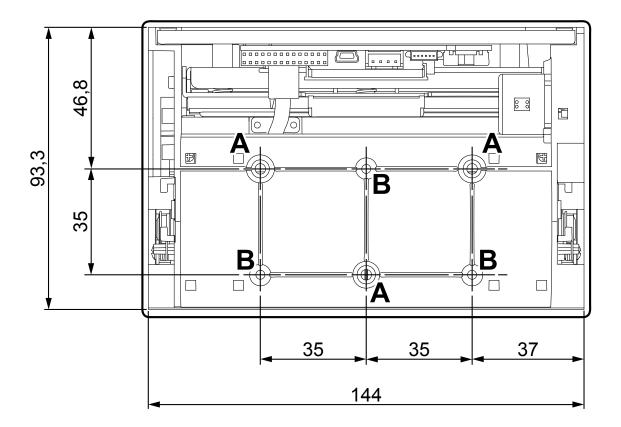




3.2 Fixing with screws (model without interconnection module)

The device is provided with six fixing holes in the back side.

To install the device on a panel it is possible to use three M3 threaded screws into the holes indicated by the letter A or three screws for plastic d = 3 (length 6 mm) into the holes indicated by the letter B (see following figure).

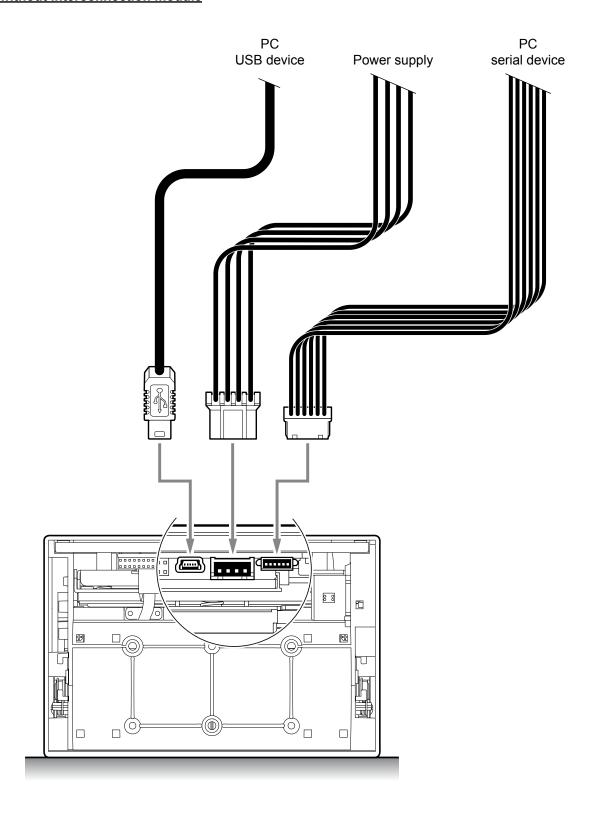




3.3 Connections

The following figures show the possible connections for device.

Model without interconnection module

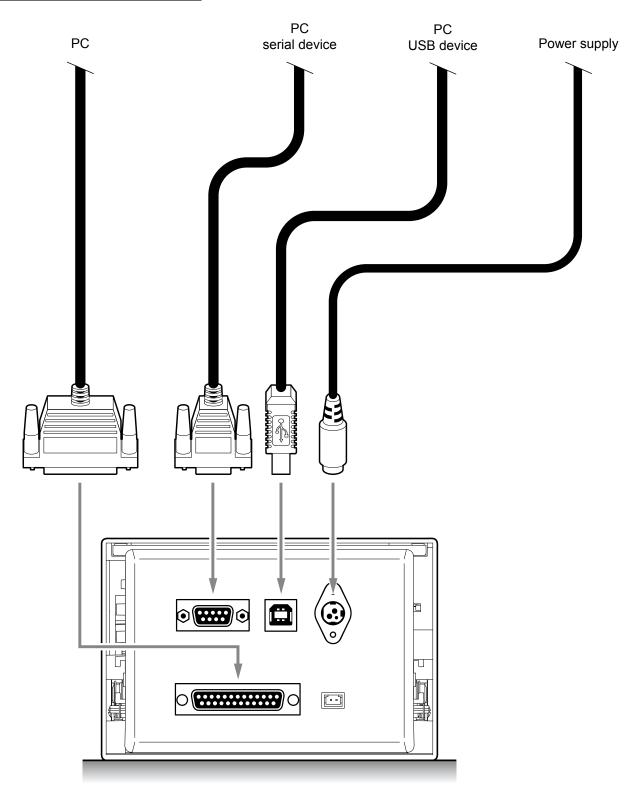


ATTENTION: In some using conditions, we recommend the installation of a ferrite core on the power supply cable.

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



Model with interconnection module

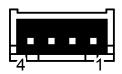


ATTENTION: In some using conditions, we recommend the installation of a ferrite core on the power supply cable.

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

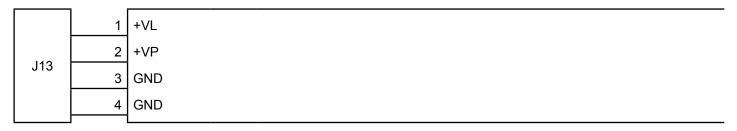


3.4 Pinout (model without interconnection module)



POWER SUPPLY

JST male connector 90° (S4B-XH-A-1)

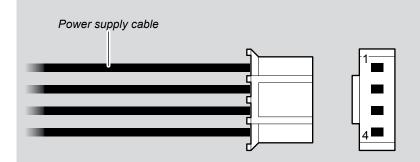


ATTENTION:

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 XHP-4

PIN	Cable color	Segnal
1	Red	+VL
2	Orange	+VP
3	Black	GND
4	Black	GND



MINI USB INTERFACE

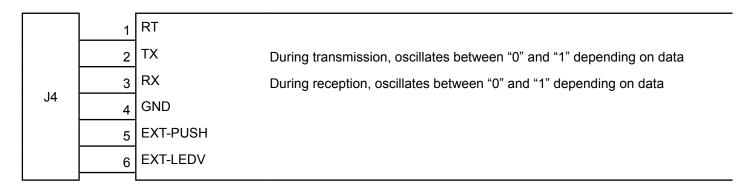
Female MINI USB type B connector

	1	VPLUG
	2	D0-
	3	D0+
	4	n.c.
J6	5	GND
	SH1	GND
	SH2	GND
	SH3	GND
	SH4	GND



RS232/TTL SERIAL INTERFACE

Molex male connector 53261 series (90°)

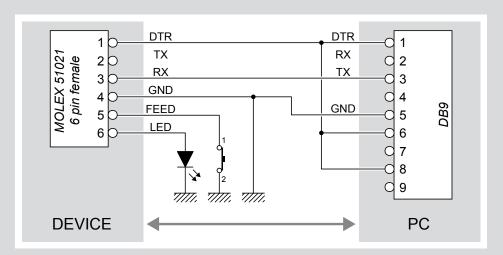


NOTES:

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 connector:



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



3.5 Pinout (model with interconnection module)



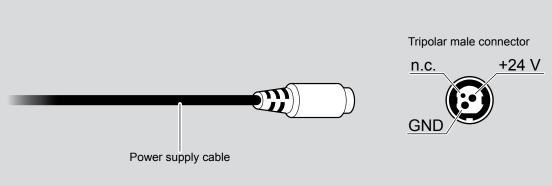


ATTENTION:

Respect power supply polarity.

NOTE: Power supply cable

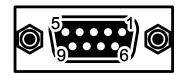
The following figure shows the connector pinout of the power supply cable for the device:





USB INTERFACE Female USB type B connector

	1	VPLUG	(in)
	2	D0-	(in/out)
15	3	D0+	(in/out)
J5	4	GND	
	SH1	GND	
	SH2	GND	



RS232 SERIAL INTERFACE

DB9 female connector

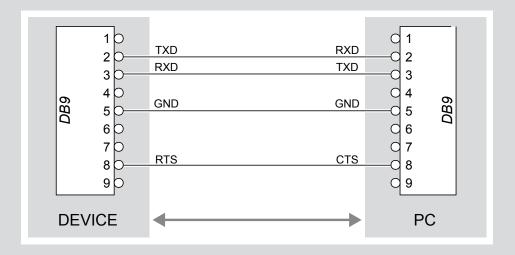
	1	n.c.	
	2	TX	During transmission, takes the value "0" and "1", depending on data
	3	RX	During reception, takes the value "0" and "1", depending on data
	4	n.c.	
	5	GND	
J3	6	n.c.	
	7	n.c.	
	8	RTS	When "1", printer is ready to receive data
	9	n.c.	
	SH1	GND	
	SH2	GND	

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 connector:



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



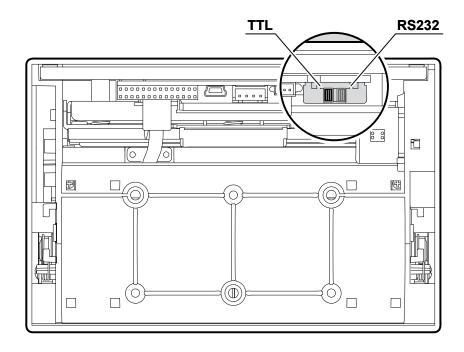


PARALLEL CENTRONICS/TTL INTERFACE DB25 female connector

1 STROBE (in) 2 AD0 (in) 3 AD1 (in) 4 AD2 (in) 5 AD3 (in) AD5 (in) AD6 (in) AD7 (in) AD8 AD7 (in) ACK (out) BUSY (out) PAP-END (out) 11 PAP-END (out) 13 VCP (out) 15 ERROR (out) 16 n.c. GND n.c. GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND 34 GND 35 GND 36 GND 37 GND 38 GND 39 GND 30 GND 31 GND 32 GND 33 GND 34 GND 35 GND 36 GND 37 GND 38 GND 39 GND 30 GND 31 GND 32 GND 33 GND 34 GND 35 GND 36 GND 37 GND 38 GND 39 GND 30 GND 31 GND 31 GND 32 GND 33 GND 34 GND 35 GND 36 GND 37 GND 38 GND		ĺ		
3 AD1 (in) 4 AD2 (in) 5 AD3 (in) 6 AD4 (in) 7 AD5 (in) 8 AD6 (in) 9 AD7 (in) 10 ACK (out) 11 BUSY (out) 12 PAP-END (out) 13 VCP (out) 14 n.c. ERROR (out) 16 n.c. 17 GND n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND			STROBE	(in)
AD2				
5 AD3 (in) 6 AD4 (in) 7 AD5 (in) 8 AD6 (in) 9 AD7 (in) 10 ACK (out) 11 BUSY (out) 12 PAP-END (out) 13 VCP (out) 15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND		3	AD1	(in)
6 AD4 (in) 7 AD5 (in) 8 AD6 (in) 9 AD7 (in) 10 ACK (out) 11 BUSY (out) 12 PAP-END (out) 13 VCP (out) 15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		4	AD2	(in)
7 AD5 (in) 8 AD6 (in) 9 AD7 (in) 10 ACK (out) 11 BUSY (out) 12 PAP-END (out) 13 VCP (out) 15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		5	AD3	(in)
8 AD6 (in) AD7 (in) 10 ACK (out) 11 BUSY (out) 12 PAP-END (out) 13 VCP (out) 15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		6	AD4	(in)
9 AD7 (in) 10 ACK (out) 11 BUSY (out) 12 PAP-END (out) 13 VCP (out) 15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		7	AD5	(in)
10 ACK (out) 11 BUSY (out) 12 PAP-END (out) 13 VCP (out) 15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND		8	AD6	(in)
11 BUSY (out) 12 PAP-END (out) VCP (out) 13 N.c. 15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 22 GND 23 GND 24 GND 25 GND		9	AD7	(in)
12 PAP-END (out) 13 VCP (out) 14 n.c. 15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		10	ACK	(out)
13 VCP		11	BUSY	(out)
J7 14 n.c. 15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		12	PAP-END	(out)
15 ERROR (out) 16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		13	VCP	(out)
16 n.c. 17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND	J7	14	n.c.	
17 GND 18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		15	ERROR	(out)
18 n.c. 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		16	n.c.	
19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		17	GND	
20 GND 21 GND 22 GND 23 GND 24 GND 25 GND		18	n.c.	
21 GND 22 GND 23 GND 24 GND 25 GND		19	GND	
22 GND 23 GND 24 GND 25 GND		20	GND	
23 GND 24 GND 25 GND		21	GND	
24 GND 25 GND		22	GND	
25 GND		23	GND	
		24	GND	
SH1 GND		25	GND	
		SH1	GND	
SH2 GND		SH2	GND	

3.6 Serial port setting (model without interconnection module)

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.

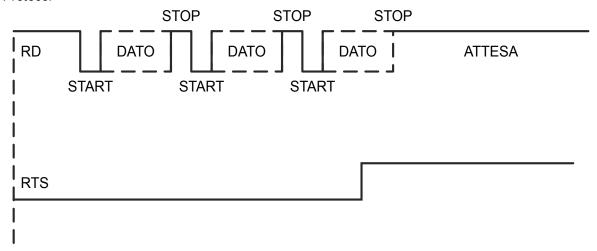
Transmission format



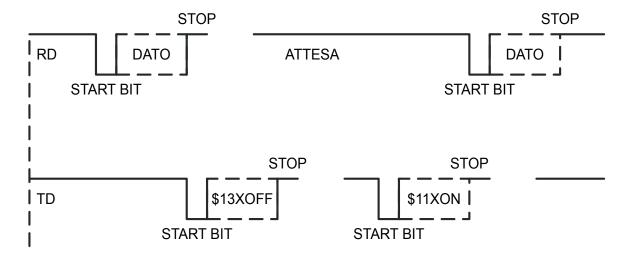
NOTES:

- (1): Bit 7 is present if only in the printer set-up is enabled 8 bit/char as data length.
- (2): Parity Bit is preset if only in the printer set-up the parity is enabled.

RTS/CTS Protocol

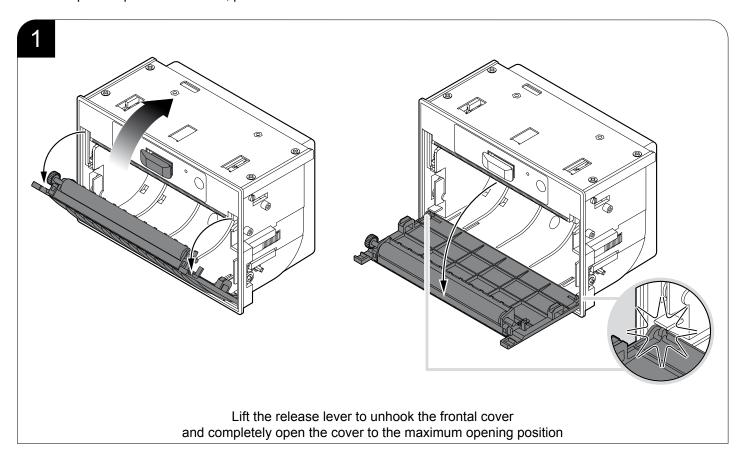


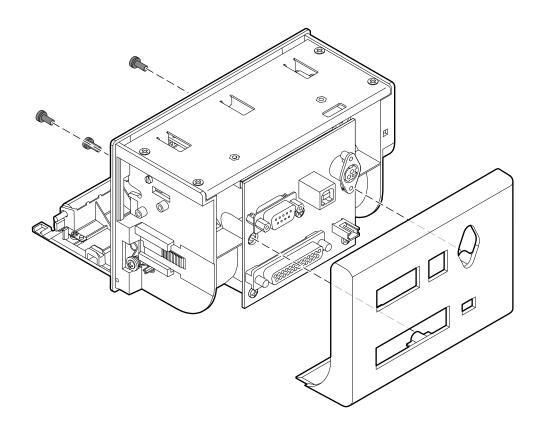




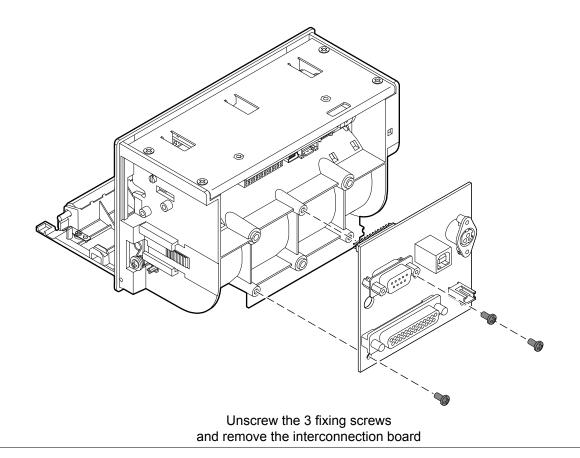
3.7 Parallel port setting (model with interconnection module)

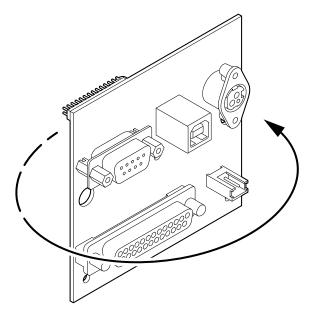
To set the parallel port of the device, proceed as follows:





Unscrew the 3 fixing screws and remove the rear cover

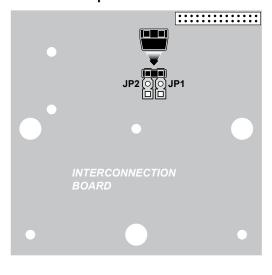




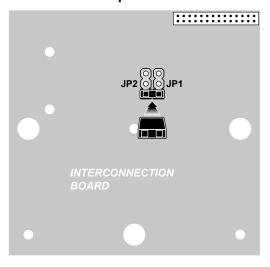
Rotate the interconnection board

5

TTL parallel interface



Centronics parallel interface



Close the jumpers JP1 and JP2 as shown in figure according to the desiderd setting

6

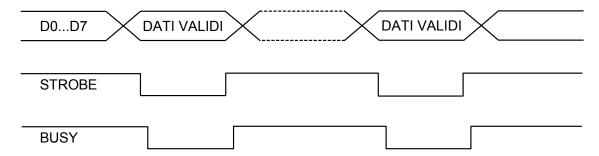


SEE PREVIOUS STEPS

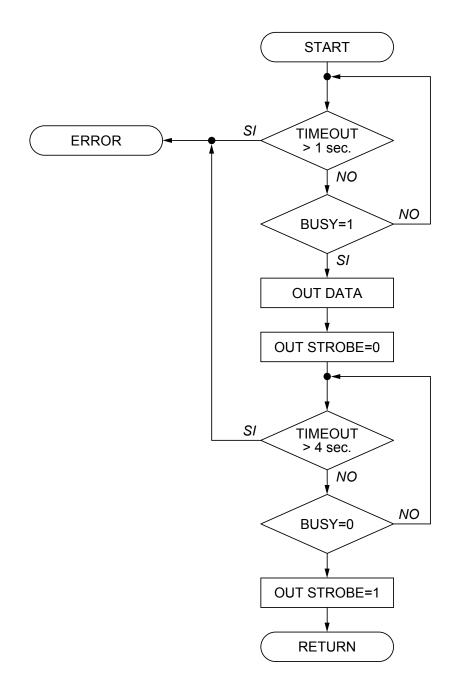
Assemble the device by reversing the previous steps

For models with parallel TTL interface, the communication signals are: 8 bit DATA BUS, STROBE (indicate the data validity) and BUSY (indicate that the device is ready to receive data).

Transmission format



Flow diagram





3.8 Driver and SDK

The drivers are available for the following operating system:

OPERATING SYSTEM	DESCRIPTION	INSTALLATION PROCEDURE	
Windows	Driver per Windows XP		
	Driver per Windows VISTA (32/64bit)	From the START menu, press Run and type-in the path where the SW	
	Driver per Windows 7 (32/64bit)	was saved on your PC, then click Ok Follow the instructions that appea on the screen to install the drive	
	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	Library 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 the library.	

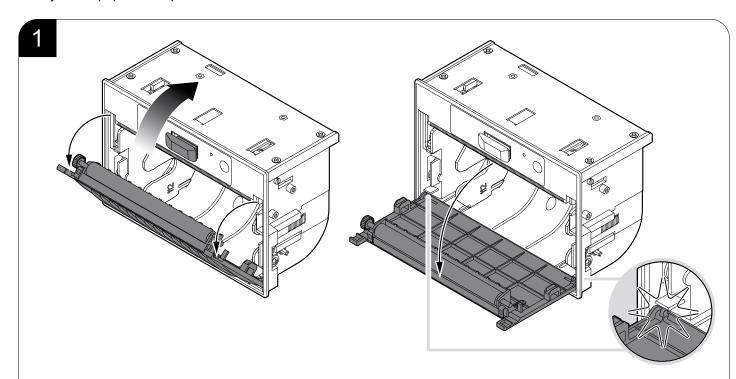
NOTA:

All drivers can be found in the DOWNLOAD section of the web site www.custom.biz.

4 OPERATION

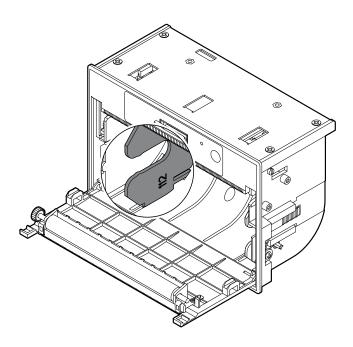
4.1 Adjusting paper width

The device includes two plastic guides for the adjustment of paper width to 144mm or 112mm. To adjust the paper width proceed as follows.



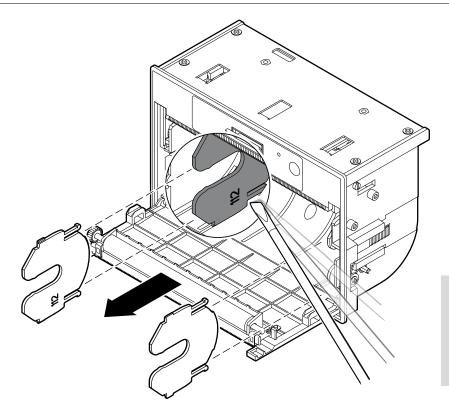
Lift the release lever and completely open the frontal cover to the maximum opening position

2



Check the number impressed on the visible side of guides.

If the number does not match the paper width desired, proceed with the following steps

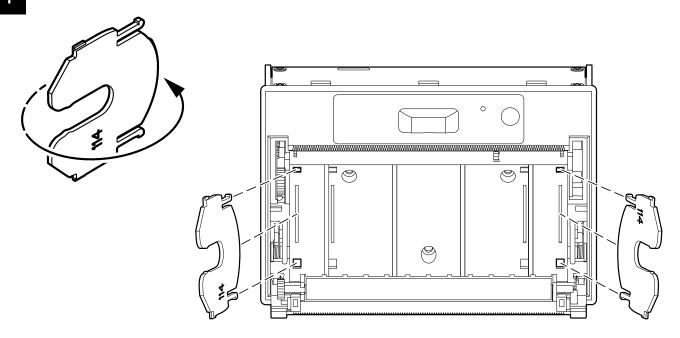


ATTENTION:

While using the screwdriver, be carefull not to damage the two guides and the paper compartment

Remove the two guides by gently levering with a small screwdriver at the point shown in the figure

4



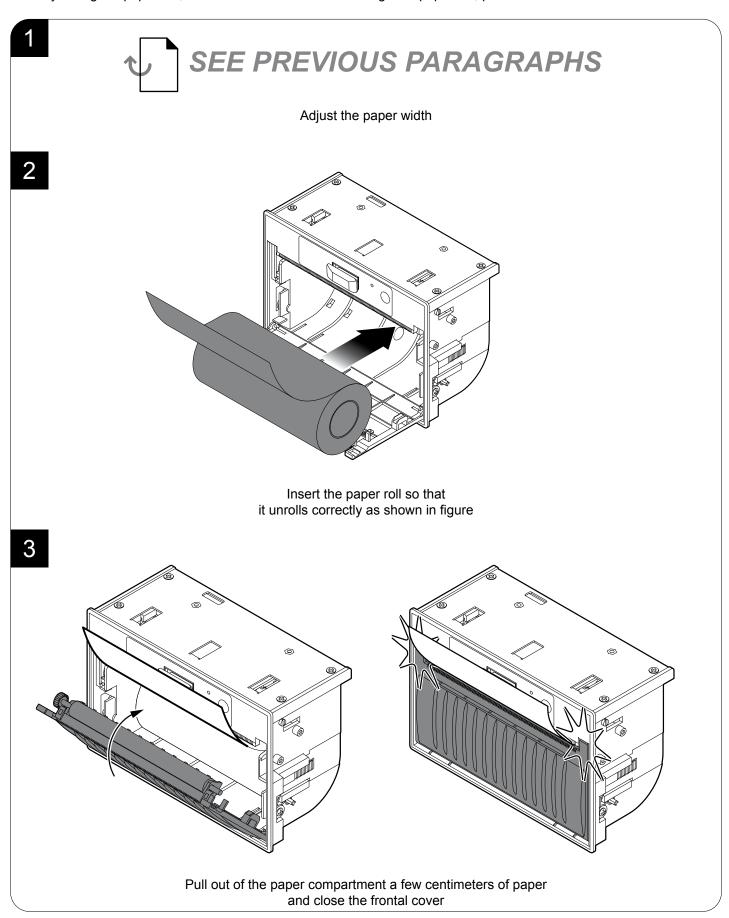
Rotate the guides and hook them into the seat of the paper compartment with the correct side facing inwards

NOTE:

The assembly procedure for the adapter guides is the same for all the device models.

4.2 Paper roll insertion

At every change of paper roll, check inside the device. To change the paper roll, proceed as follows:

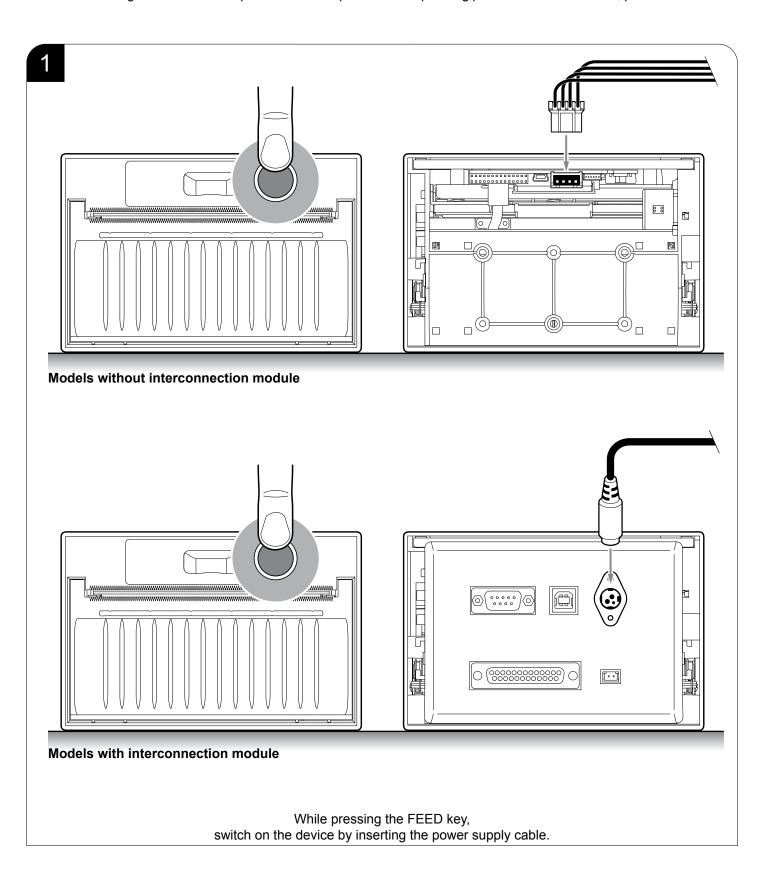




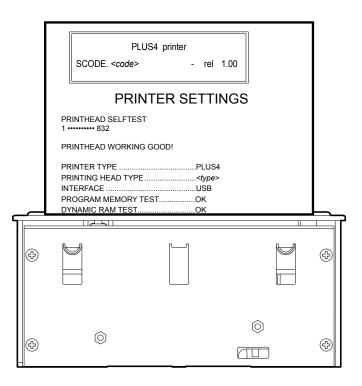
5 CONFIGURATION

5.1 Configuration mode

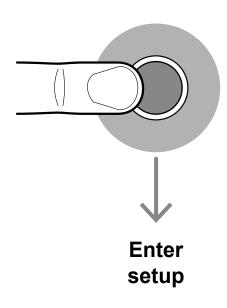
To enter the configuration mode and print a SETUP report with the operating parameters of the device, proceed as follows.







The device prints the report with parameters for settings

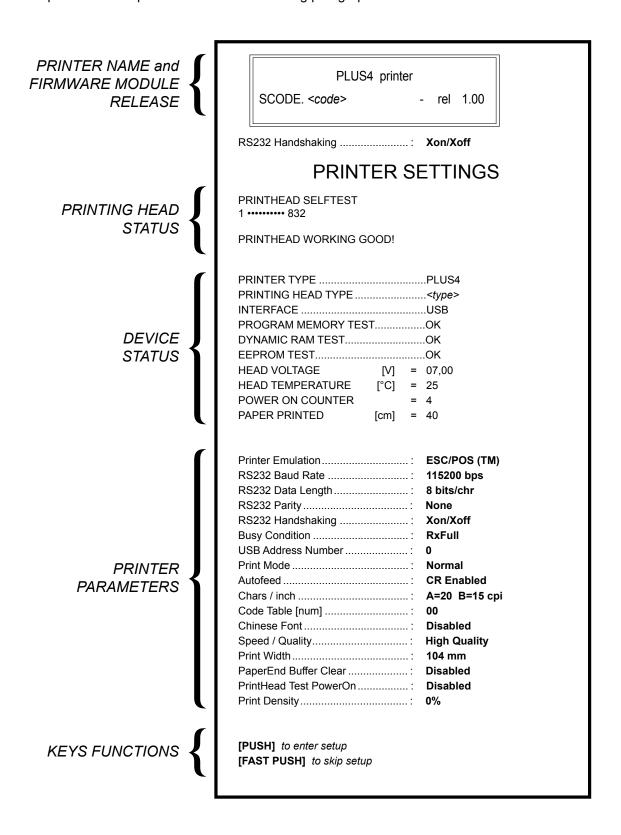


Press the FEED key to enter the configuration mode

38

5.2 Setup report

The following figure shows 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 Printer status

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:

PRINTER 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

Printer parameters 5.4

This device allows the configuration of the parameters listed in the following table. The parameters marked with the symbol $^{\rm D}$ 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:
	ESC/POS™ ^D
RS232 BAUD RATE	Communication speed of the serial interface:
	115200 ^D 9600
	57600 4800
	38400 2400
	19200 1200
	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 handshaking
	Hardware = hardware handshaking (CTS/RTS)
	NOTES:
	Parameter valid only with serial interface.
	When the receive buffer is full, if handshaking is set to XON/XOFF, the printer sends the XOFF (\$13) on the
	serial port. When the receive buffer has cleared once again, if handshaking is set to XON/XOFF, the printe sends the XON (\$11) on the serial port.
BUSY CONDITION	Activation mode for Busy signal:
	OffLine/ RXFull = Busy signal is activated when the printer is both in OffLine status and
	the buffer is full
	$RXFull^{D} = Busy signal is activated when the buffer is full$

NOTE: Parameter valid only with serial interface.



USB ADDRESS NUMBER

Numerical address code for the univocal identification of the USB device (in case of more than a USB device connected with the same PC):

0^D 2 4 6 8 1 3 5 7 9

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 = 11 cpi, B = 15 cpi A = 15 cpi, B = 20 cpi A = 20 cpi, B = 15 cpi ^D

NOTES:

CPI = Characters Per 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 the setting of two digits for the tens and the units:

Setting the digit for tens:

CODE TABLE [num x 10]

0^D 2 4 1 3 5

Setting the digit for units:

CODE TABLE [num x 1]

NOTE:

See the paragraph 7.5 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 \$1B \$74 (refer to the Commands Manual of the device).

CHINESE FONT

Setting of the chinese font:

Disabled Disables the use of the chinese extended font GB18030-2000 Enabled = Enables the use of the chinese extended font GB18030-2000

NOTE: When the chinese font is enabled, the selection of the character code table is suspended (parameter "CODE TABLE"). When the Chinese fonts is disabled, it returns the character code table previously in use (parameter "CODE TABLE").



SPEED / QUALITY	Setting of printing speed and printing quality:					
	High Quality [□] Normal					
PRINT WIDTH	Width of printing area:					
	76mm 82mm 88mm 94mm 100mm					
	78mm 84mm 90mm 96mm 102mm					
	80mm 86mm 92mm 98mm 104mm ^D					
PAPEREND BUFFER	Cleaning mode of the data in receive buffer, if the printing is stopped due to lack of paper:					
CLEAR	э э э э э э э э э э э э э э э э э э э					
CLEAR	Disabled D = The data remain in the receive buffer. When the paper runs of keeps the remaining data in the receive buffer and prints to	out, the printer				
CLEAR	Disabled D = The data remain in the receive buffer. When the paper runs of	out, the printer the remaining				
PRINTHEAD TEST	Disabled D = The data remain in the receive buffer. When the paper runs of keeps the remaining data in the receive buffer and prints a portion of the ticket after that the new paper is loaded.	out, the printer the remaining				
	Disabled D = The data remain in the receive buffer. When the paper runs of keeps the remaining data in the receive buffer and prints a portion of the ticket after that the new paper is loaded. Enabled = When the paper runs out, all data in the receive buffer are of the paper runs.	out, the printer the remaining deleted.				
PRINTHEAD TEST	Disabled D = The data remain in the receive buffer. When the paper runs of keeps the remaining data in the receive buffer and prints is portion of the ticket after that the new paper is loaded. Enabled = When the paper runs out, all data in the receive buffer are of Setting of the performing of the print head test: Disabled D = the test is performed only during the printing of the setup repairs of the printing of the setup repairs of the printing of the setup repairs of the paper runs of the printing of the setup repairs of the paper runs of th	out, the printer the remaining deleted.				
PRINTHEAD TEST POWERON	Disabled D = The data remain in the receive buffer. When the paper runs of keeps the remaining data in the receive buffer and prints to portion of the ticket after that the new paper is loaded. Enabled = When the paper runs out, all data in the receive buffer are of Setting of the performing of the print head test: Disabled D = the test is performed only during the printing of the setup repended = the test is performed at each power on Adjusting the printing density:	out, the printer the remaining deleted.				
PRINTHEAD TEST POWERON	Disabled D = The data remain in the receive buffer. When the paper runs of keeps the remaining data in the receive buffer and prints a portion of the ticket after that the new paper is loaded. Enabled = When the paper runs out, all data in the receive buffer are of Setting of the performing of the print head test: Disabled D = the test is performed only during the printing of the setup referabled = the test is performed at each power on	out, the printer the remaining deleted.				



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 printer enters the self-test routine and print the setup report. The printer remains in standby until a key is pressed or characters are received through the communication port (Hexadecimal Dump mode). For each character sent, the ticket shows the hexadecimal value and the ASCII codes (if the characters are underlined, the receive buffer is full). Shown below is an example of a Hexadecimal Dump:

	1.11	ΓV	۸ D	ГС)	
	П	二人	ΑD	EC	,IIVIAL	_ 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
6В	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	6B	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 compartment	Use compressed air or tweezers
Sensors	Use compressed air
EVERY 6 MONTHS OR AS NEEDED	
Printer case	Use compressed air or a soft cloth

For specific procedures, see the following pages.

NOTE

If you use the device in dusty environments, you must reduce the intervals between the cleaning operations.



6.2 Cleaning

For periodic cleaning of the printer, see the instructions below.

<u>Sensors</u> Disconnect the power supply cable and open the frontal cover of the device (see par. 4.1)

Clean the device sensor by using compressed air.

ATTENTION:

Do not use alcohol, solvents, or hard brushes. Do not let water or other liquids get inside the device.

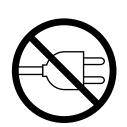




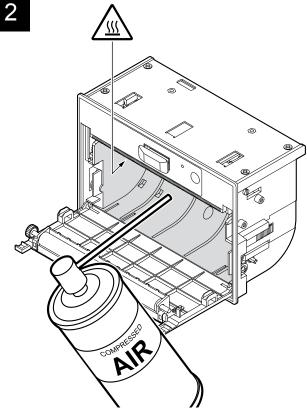




Paper compartment



Disconnect the power supply cable and open the frontal cover of the device (see par. 4.1)



Remove any scraps of paper and the accumulated paper dust into the paper compartment by using compressed air

ATTENTION:

Do not use alcohol, solvents, or hard brushes. Do not let water or other liquids get inside the device.

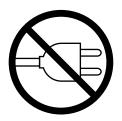






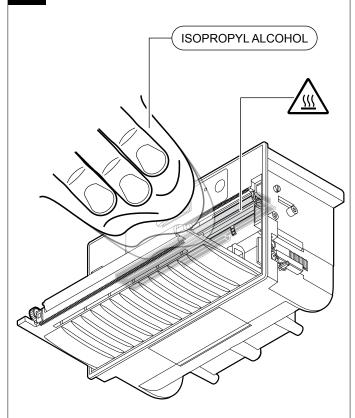


1



Disconnect the power supply cable and open the fronal cover of the device (see par. 4.1)

2



Clean the printing head by using a non-abrasive cloth moistened with isopropyl

ATTENTION:

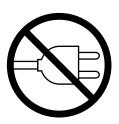
Do not use solvents, or hard brushes. Do not let water or other liquids get inside the machine.



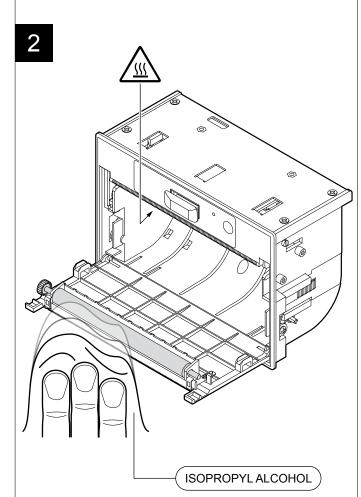




1



Disconnect the power supply cable and open the frontal cover of the device (see par. 4.1)



Clean the printing roller by using a non-abrasive cloth moistened with isopropyl.

ATTENTION:

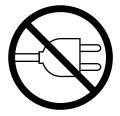
Do not use solvents, or hard brushes. Do not let water or other liquids get inside the machine.



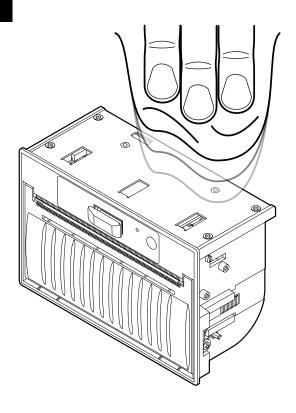








Disconnect the power supply cable



To clean the device, use compressed air or a soft cloth

ATTENTION: Do not use alcohol, solvents, or hard brushes. Do not let water or other liquids get inside the device.









6.3 Firmware upgrade

ATTENTION:

During communication between PC and 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 machine.

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

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

NOTES:

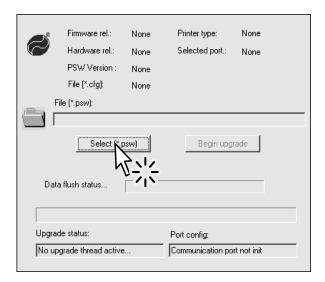
The latest firmware of the device is available in the download area of the web site www.custom.biz

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

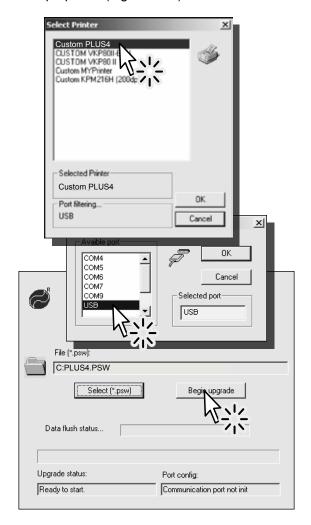
For communication via USB you must install on PC the printer driver available in the download area of the web site www.custom.biz.

Proceed as follows:

- 1. Write down the product code (14 digits) printed on the product label (see par.2.4).
- 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 USB cable (see par.3.3).
- 6. Switch ON the device.
- 7. Launch the software UPGCEPRN.
- 8. Select the update file .PSW location:



Select item USB and then select the USB device among those proposed (e.g. PLUS4):



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 SPECIFICATIONS

7.1 Hardware specifications

GENERAL	
Sensors	Paper presence, printing head temperature
MTBF (1)	118 000 hours
Emulations	ESC/POS™
Printing driver	Windows XP, Windows VISTA (32/64bit), Windows 7 (32/64bit), Windows 8 (32/64bit), Linux, Android
INTERFACES	
models without interconnection module	
USB connector	12 Mbit/sec (USB 2.0 full speed)
Serial RS232/TTL connector	from 1200 to 115200 bps
models with interconnection module	
Seriale RS232 connector	from 1200 to 115200 bps
USB connector	12 Mbit/sec (USB 2.0 full speed)
Centronics/TTL connector	up to 2MB/sec
MEMORIES	
Receive buffer	2 Kbytes
Flash memory	1 Mbytes internal + 4 Mbytes external (of which 1Mbytes available)
RAM memory	128 Kbytes internal + 8Mbytes external
PRINTER	
Resolution	203 dpi (8 dot/mm)



Drinting mathod	Thormal fixed head
Printing method	Thermal, fixed head
Printing width	from 76mm to 104mm (2mm step)
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.7.5) Extended Chinese GB18030-2000
Printable barcode	UPCA, UPCE, EAN13, EAN8, CODE39, ITF CODABAR, CODE93, CODE128, CODE32
Printing speed (2)(3)	High Quality = 50 mm/sec Normal = 70 mm/sec
PAPER	
Tipe of paper	Thermal paper rolls, thermal side on outside of roll
Paper width	112 mm, 114 mm
Paper weight	from 50 g/m2 to 60 g/m2
Recommended types of paper	KANZAN KF50
Paper end	Not attached to roll core
External roll diameter	max. 50 mm
Internal roll core diameter	12 mm
Core type	Cardboard or plastic
DEVICE ELECTRICAL SPECIFICATIONS	
Power supply	
models without interconnection module	from 5 Vdc to 8 Vdc (optional external power supply)
models with interconnection module	from 9 Vdc to 42 Vdc (optional external power supply)
Medium consumption (3)	
models without interconnection module	from 1 A to 1,37 A
models with interconnection module	from 0,85 A to 0,20 A



Stand-by consumption	
models without interconnection module	0,085 A
models with interconnection module	0,097 A
ELECTRICAL SPECIFICATIONS POWER SUPPLY cod.963GE020000003 (OPTIONAL)	
Power supply voltage	from 100 Vac to 240 Vac
Frequency	from 50 Hz to 60 Hz
Current (output)	2.5 A
Power	60W
ENVIRONMENTAL CONDITIONS	
Operating temperature	from 0°C to +60°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): Control board.
 (2): Respecting the regular schedule of cleaning for the device components.
 (3): Referred to a standard CUSTOM receipt (L=10cm, Density = 12,5% dots on).



7.2 Character specifications in ESC/POS™ emulation

Character set		3	
Character density	11 cpi	15 cpi	20 cpi
Number of columns	46	59	83
Chars / sec	402	516	726
Lines / sec	8,75	8,75	8,75
Characters (L x H mm)-Normal	2,25 x 3	1,625 x 3	1,25 x 3

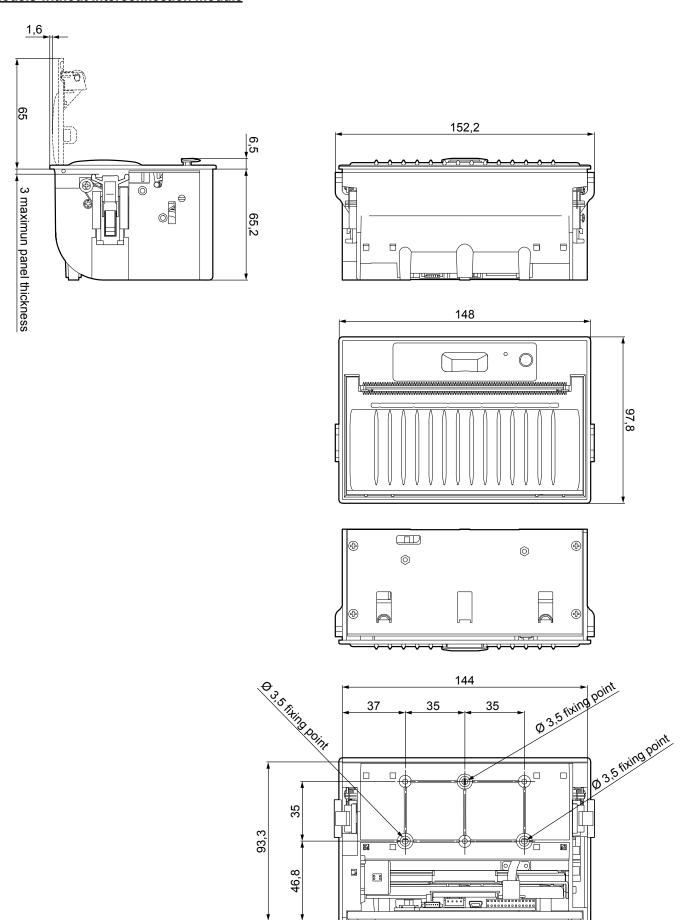
7.3 Device dimensions

Length	148 mm
Height	97,8 mm
Width	
models without interconnection module	71,7 mm
models with interconnection module	89,1 mm
Weight	
models without interconnection module	390 g
models with interconnection module	510 g

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

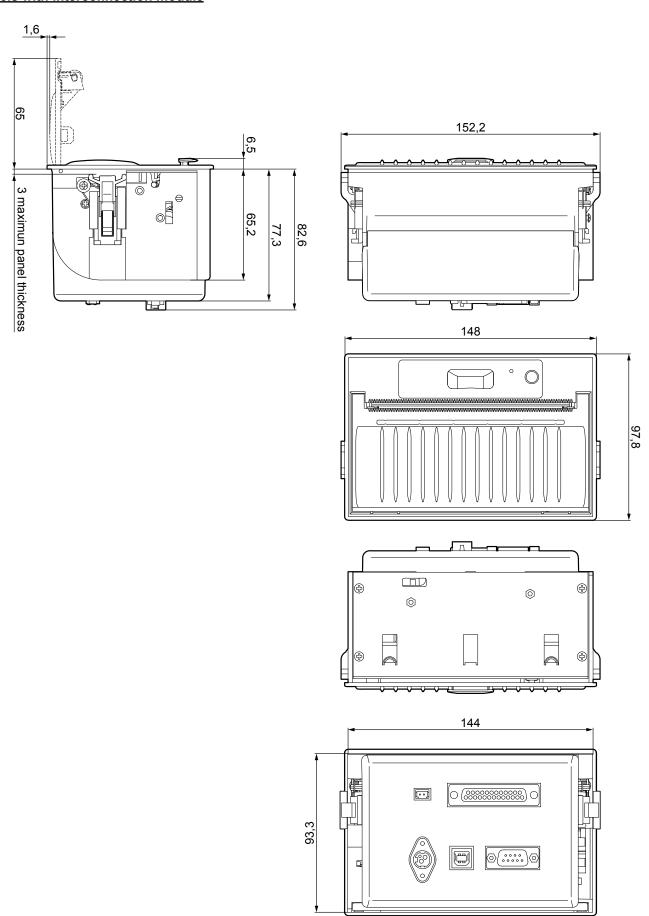


Models without interconnection module





Models with interconnection module



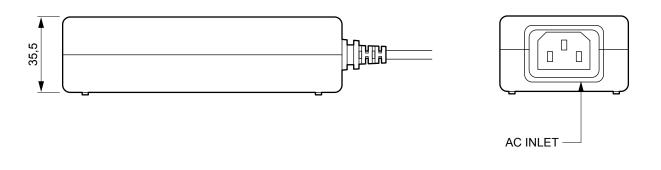


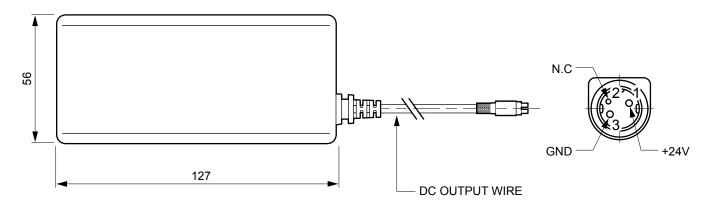
7.4 Power supply dimensions cod.963GE020000003 (optional)

Length	127 mm
Height	35,5 mm
Width	56 mm

NOTE:

All the dimensions shown in following figures are in millimetres.







7.5 Character sets in ESC/POS™ emulation

The device has 3 fonts of varying width (11, 15 and 20 cpi) which may be related one of the coding tables provided on the device.

To know the coding tables actually present on the device, you need to print the font test (see par.2.5).

You can set font and coding table by using the commands (see the Commands Manual of the device) or using the "Code Table" and the "Chars / Inch" parameters during the Setup procedure (see par.5.4).

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

0 PC437: Usa, Standard Europe 33 WPC775: Baltic Rim 1 Katakana 34 PC855: Cyrillic 2 PC850: Multilingual 35 PC861: Icelandic 3 PC860: Portuguese 36 PC862: Hebrew 4 PC863: Canadian-Frech 37 PC864: Arabic 5 PC865: Nordic 38 PC869: Greek 11 PC851: Greek 39 ISO8859-2: Latin2 12 PC853: Turkish 40 ISO8859-15: Latin9 13 PC857: Turkish 41 PC1098: Farsi 14 PC737: Greek 42 PC1118: Lithuanian 15 ISO8859-7: Greek 43 PC1119: Lithuanian 16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1255: Hebrew 20 KU42: Thai 49 WPC1256: Arabic 30 TCVN-3: Vietnamese	<code table=""></code>	Coding table	<code table=""></code>	Coding table
2 PC850: Multilingual 35 PC861: Icelandic 3 PC860: Portuguese 36 PC862: Hebrew 4 PC863: Canadian-Frech 37 PC864: Arabic 5 PC865: Nordic 38 PC869: Greek 11 PC851: Greek 39 ISO8859-2: Latin2 12 PC853: Turkish 40 ISO8859-15: Latin9 13 PC857: Turkish 41 PC1098: Farsi 14 PC737: Greek 42 PC1118: Lithuanian 15 ISO8859-7: Greek 43 PC1119: Lithuanian 16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	0	PC437: Usa, Standard Europe	33	WPC775: Baltic Rim
3 PC860: Portuguese 36 PC862: Hebrew 4 PC863: Canadian-Frech 37 PC864: Arabic 5 PC865: Nordic 38 PC869: Greek 11 PC851: Greek 39 ISO8859-2: Latin2 12 PC853: Turkish 40 ISO8859-15: Latin9 13 PC857: Turkish 41 PC1098: Farsi 14 PC737: Greek 42 PC1118: Lithuanian 15 ISO8859-7: Greek 43 PC1119: Lithuanian 16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1257: Baltic Rim	1	Katakana	34	PC855: Cyrillic
4 PC863: Canadian-Frech 37 PC864: Arabic 5 PC865: Nordic 38 PC869: Greek 39 ISO8859-2: Latin2 12 PC853: Turkish 40 ISO8859-15: Latin9 13 PC857: Turkish 41 PC1098: Farsi 42 PC1118: Lithuanian 42 PC1118: Lithuanian 43 PC11252 44 PC1125: Ukrainian 45 WPC1252 44 PC1125: Ukrainian 46 WPC1252 45 WPC1250: Latin2 46 WPC1251: Cyrillic 47 WPC1253: Greek 48 WPC1253: Greek 49 WPC1253: Greek 40 WPC1254: Turkish 49 WPC1255: Hebrew 40 WPC1255: Arabic 50 WPC1256: Arabic 51 WPC1257: Baltic Rim	2	PC850: Multilingual	35	PC861: Icelandic
5 PC865: Nordic 38 PC869: Greek 11 PC851: Greek 39 ISO8859-2: Latin2 12 PC853: Turkish 40 ISO8859-15: Latin9 13 PC857: Turkish 41 PC1098: Farsi 14 PC737: Greek 42 PC1118: Lithuanian 15 ISO8859-7: Greek 43 PC1119: Lithuanian 16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	3	PC860: Portuguese	36	PC862: Hebrew
11 PC851: Greek 39 ISO8859-2: Latin2 12 PC853: Turkish 40 ISO8859-15: Latin9 13 PC857: Turkish 41 PC1098: Farsi 14 PC737: Greek 42 PC1118: Lithuanian 15 ISO8859-7: Greek 43 PC1119: Lithuanian 16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	4	PC863: Canadian-Frech	37	PC864: Arabic
12 PC853: Turkish 40 ISO8859-15: Latin9 13 PC857: Turkish 41 PC1098: Farsi 14 PC737: Greek 42 PC1118: Lithuanian 15 ISO8859-7: Greek 43 PC1119: Lithuanian 16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	5	PC865: Nordic	38	PC869: Greek
13 PC857: Turkish 41 PC1098: Farsi 14 PC737: Greek 42 PC1118: Lithuanian 15 ISO8859-7: Greek 43 PC1119: Lithuanian 16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	11	PC851: Greek	39	ISO8859-2: Latin2
14 PC737: Greek 42 PC1118: Lithuanian 15 ISO8859-7: Greek 43 PC1119: Lithuanian 16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	12	PC853: Turkish	40	ISO8859-15: Latin9
15 ISO8859-7: Greek 43 PC1119: Lithuanian 16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	13	PC857: Turkish	41	PC1098: Farsi
16 WPC1252 44 PC1125: Ukrainian 17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	14	PC737: Greek	42	PC1118: Lithuanian
17 PC866: Cyrillic #2 45 WPC1250: Latin2 18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	15	ISO8859-7: Greek	43	PC1119: Lithuanian
18 PC852: Latin2 46 WPC1251: Cyrillic 19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	16	WPC1252	44	PC1125: Ukrainian
19 PC858: Euro 47 WPC1253: Greek 20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	17	PC866: Cyrillic #2	45	WPC1250: Latin2
20 KU42: Thai 48 WPC1254: Turkish 21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	18	PC852: Latin2	46	WPC1251: Cyrillic
21 TIS11: Thai 49 WPC1255: Hebrew 26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	19	PC858: Euro	47	WPC1253: Greek
26 TIS18: Thai 50 WPC1256: Arabic 30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	20	KU42: Thai	48	WPC1254: Turkish
30 TCVN-3: Vietnamese 51 WPC1257: Baltic Rim	21	TIS11: Thai	49	WPC1255: Hebrew
	26	TIS18: Thai	50	WPC1256: Arabic
	30	TCVN-3: Vietnamese	51	WPC1257: Baltic Rim
31 TCVN-3: Vietnamese 52 WPC1258: Vietnamese	31	TCVN-3: Vietnamese	52	WPC1258: Vietnamese
32 PC720: Arabic 53 KZ-1048: Kazakhstan	32	PC720: Arabic	53	KZ-1048: Kazakhstan

8 CONSUMABLES

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

DESCRIPTION	CODE
	6730000000309
THERMAL PAPER ROLL	
wight = 55g/m ² width = 112mm	
Ø external = 48mm Ø core = 12mm	



9 ACCESSORIES

The available accessories for the device are listed in the following table:

DESCRIPTION CODE 963GE020000003 **POWER SUPPLY** (for technical specification, see paragraph 7.1) models without interconnection module 4400000002500 CABLES KIT POWER SUPPLY + SERIAL/TTL INTERFACE 5-8 VOLT 976GJ020000001 INTERCONNECTION MODULE (see paragraphs 9.1) models with interconnection module 22600000000012

POWER SUPPLY CABLE

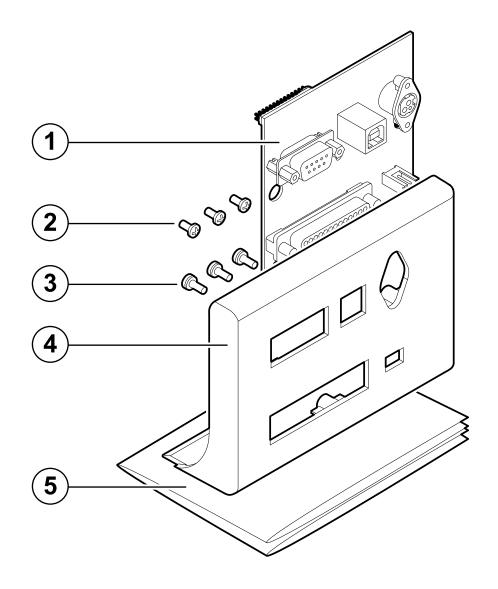


9.1 Interconnection module (models without interconnection module)

An interconnection module kit (cod.976GJ020000001) is available for the device.

The kit includes (see figure):

- 1. Interconnection board
- 2. No.3 fixing screws for interconnection board
- 3. No.3 fixing screws for rear cover
- Rear cover
- 5. Instruction sheet



NOTE:

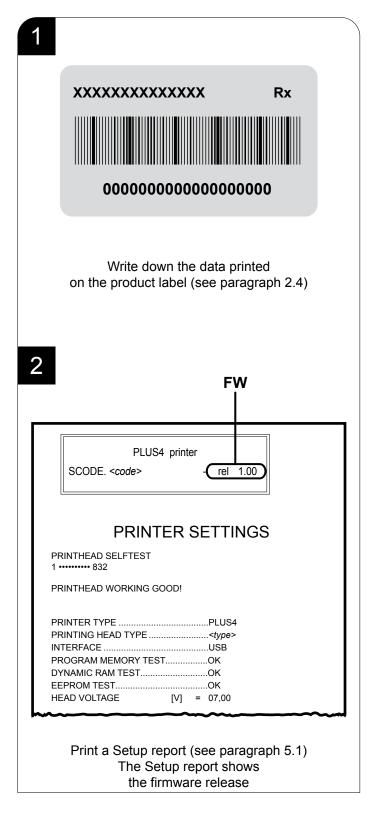
To assemble the interconnection module, refer to the instruction sheet provided with the kit.

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:









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

All rights reserved