# **Ticket Printer**

# TG558 serie 35-58 mm

## **User Manual**



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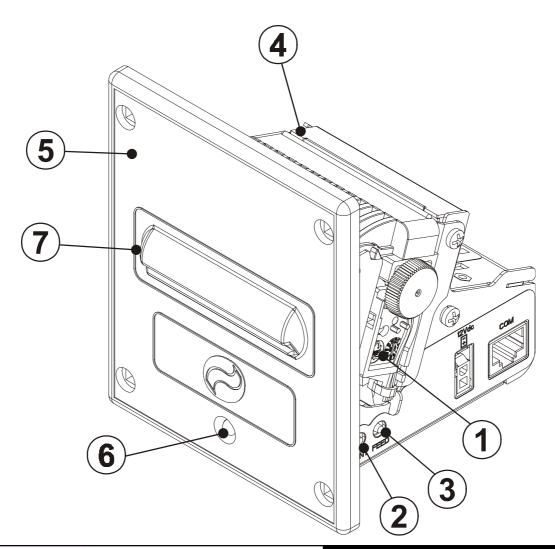
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Tel.: +39 059 88 69 587 Email : support@custom.it



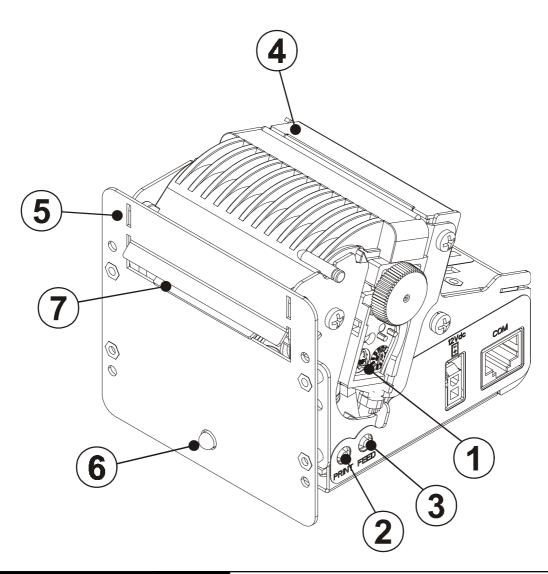
#### PRINTER COMPONENTS

- A. TG558 Exterior view with plastic front panel TG558-x35P (1),TG558-x58P (1), TG558-x35P-0001 (2), TG558-x58P-0001 (2)
- 1- Printing mechanism
- 2- "PRINT" key
- 3- "FEED" key
- 4- Case
- 5- Front panel
- 6-Led
- 7- Paper output
- (1) The **x** suffix indicates the following models:
- TG558-S35P (35mm version with RS232 serial interface)
- TG558-S58P (58mm version with RS232 serial interface)
- TG558-T35P (35mm version with TTL serial interface)
- TG558-T58P (58mm version with TTL serial interface)
- (2) The **0001** suffix indicate the real time clock option.



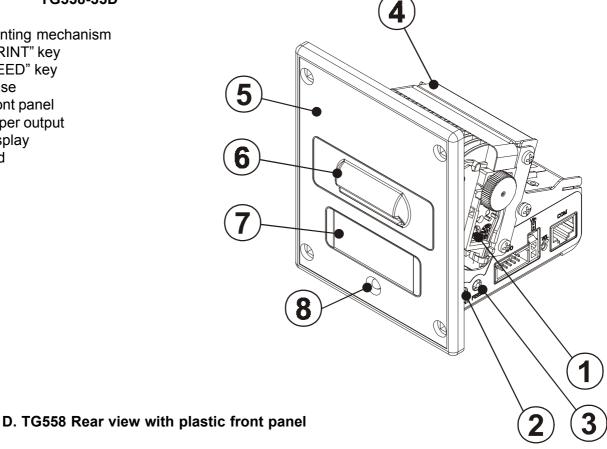
# B. TG558 Exterior view with metallic front panel TG558-x35M <sup>(1)</sup>,TG558-x58M <sup>(1)</sup>, TG558-x35M-0001 <sup>(2)</sup>, TG558-x58M-0001 <sup>(2)</sup>

- 1- Printing mechanism
- 2- "PRINT" key
- 3- "FEED" key
- 4- Case
- 5- Front panel
- 6-Led
- 7- Paper output
- $^{(1)}$  The **x** suffix indicates the following models :
- TG558-S35M (35mm version with RS232 serial interface)
- TG558-S58M (58mm version with RS232 serial interface)
- TG558-T35M (35mm version with TTL serial interface)
- TG558-T58M (58mm version with TTL serial interface)
- (2) The **0001** suffix indicate the real time clock option.

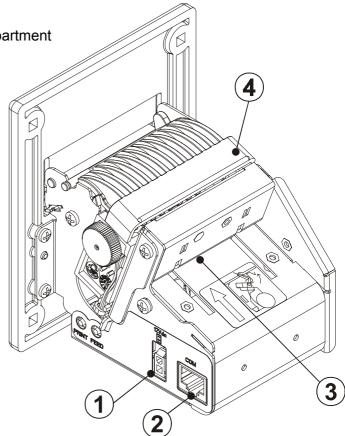


#### C. TG558 Exterior view with display TG558-35D

- 1- Printing mechanism
- 2- "PRINT" key
- 3- "FEED" key
- 4- Case
- 5- Front panel
- 6- Paper output
- 7- Display
- 8-Led

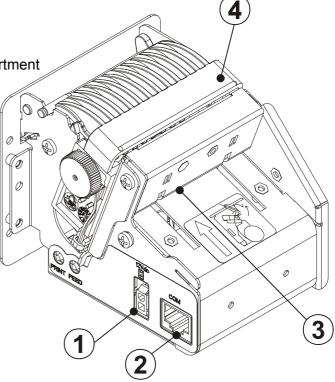


- 1- Power supply connector
- 2- RS232 /TTL serial interface connector
- 3- Paper input
- 4- Inspection wicket relative to paper roll compartment



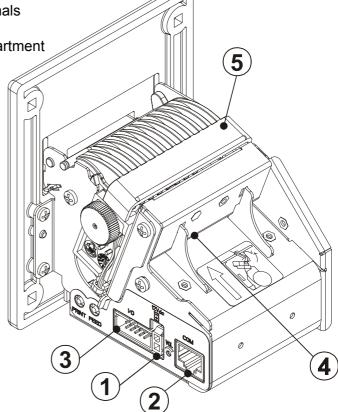
#### E. TG558 Rear view with metallic front panel

- 1- Power supply connector
- 2- RS232 /TTL serial interface connector
- 3- Paper input
- 4- Inspection wicket relative to paper roll compartment



#### F. TG558 Rear view with Display

- 1- Power supply connector
- 2- TTL serial interface connector
- 3- Power supply connector and additional signals
- 4- Paper input
- 5- Inspection wicket relative to paper roll compartment



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#### **MANUAL ORGANIZATION**

In addition to the Introduction which contains information regarding the symbols used in the manual, general safety information, instructions for unpacking the printer and a brief description and main characteristics of the machine, this manual is divided into the following chapters:

Chapter 1: Contains the information required for correct printer installation and use

Chapter 2: Contains interface data

Chapter 3: Contains a description of printer controls

Chapter 4: Contains printer technical data

Chapter 5: Contains the character sets (fonts) used by the printer

Appendix: Contains a description of printer accessories and spare parts.

#### SYMBOLS USED IN THE MANUAL



#### **NOTE**

Gives important information or suggestions for printer use.



#### **WARNING**

Information indicated by this symbol must be followed carefully to avoid damaging the printer.



#### **DANGER**

Information indicated by this symbol must be followed carefully to avoid damage or operator injury.

#### **GENERAL SAFETY INFORMATION**

- Read and retain the instructions which follow.
- Before cleaning the printer, be sure to pull out the electrical cable.
- Use a damp cloth to clean the printer. Do not use liquid or spray products.
- Do not operate the printer near water.
- When positioning the printer, make sure its cables will not be damaged.
- Use the type of electrical power supply indicated on the printer label. If uncertain, contact your dealer.
- Do not block the ventilation openings.
- Do not insert objects inside the printer as this could cause short-circuiting or damage components that could jeopardize printer functioning.
- Do not spill liquids onto the machine.
- Do not carry out repairs on the machine yourself, except for the normal maintenance operations given in the user manual.
- Unplug the printer from the electrical mains and call a specialized repairman if any of the following conditions should arise:
  - A. the power supply connector is damaged
  - B. liquid has spilled into the printer
  - C. the printer has been exposed to rain or water
  - D. the printer is not functioning normally despite the fact that all instructions given in the user manual have been followed
  - E. the printer has been dropped and the cover is damaged
  - F. printer performance is noticeably reduced
  - G. the printer is not working

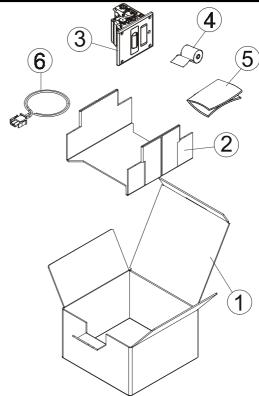
#### **UNPACKING THE PRINTER**

Remove the printer from the carton, taking care not to damage the packing materials which should be retained for future shipping/moving.

Make sure all components listed below are present and not damaged. If any part is missing and/or damaged, contact customer service.

#### INTRODUCTION

- 1. Box
- 2. Foam packing shell
- 3. Printer
- 4. Paper roll
- 5. Manual (or CD-Rom)
- 6. Electrical supply cable



#### **PRINTER DESCRIPTION**

Ultra compact thermal printer (only 9cm deep) for dispensing 35 or 58mm tickets width, easy to install (4 fastening holes and ticket presentation to user incorporated). Thanks to the exclusive **anti-paper-jam system**, the ticket will always be promptly dispensed to the user.

Thanks to an innovative type of **paper roll holding bracket**, it is possible to accommodate up to 73 metres of paper (max external Ø 80mm), adapt the printer to the mechanical space requirements necessitated by the application (3 positions: upper, lower and rear) and manage the near paper end signal.

(Fig. 1)

It is equipped with a 203 dpi thermal print mechanism; it has the serial interfaces RS232 and TTL and it's also available a version equipped with a calendar clock (Real Time Clock).

The TG558 is available with Fireproof plastic or metal front panel. The TG558 display version is equipped with:

- alphanumeric display for viewing scrolling messages is available. Speaker output integrated;
- software tools that allows to transfer MIDI format sound into the printer, through serial port;
- When the "REPORT" key is pressed, it prints the printer operational report.
- When the "FEED" key is pressed, the paper can be fed forward manually.
- The red Status LED displays a printer hardware error status and the winnings. The check is carried out"on line", i.e. in the event of a malfunctioning, the LED will starts flashing as follows:

STATUS LED	DESCRIPTION
Always OFF	Printer OFF
Always ON	Printer ON – no faults
Slow flashing (on for a long period)	Tilting cover raised
Slow flashing (on for a short period)	Paper Out Message

(Tab.1)

#### **MAIN APPLICATIONS**

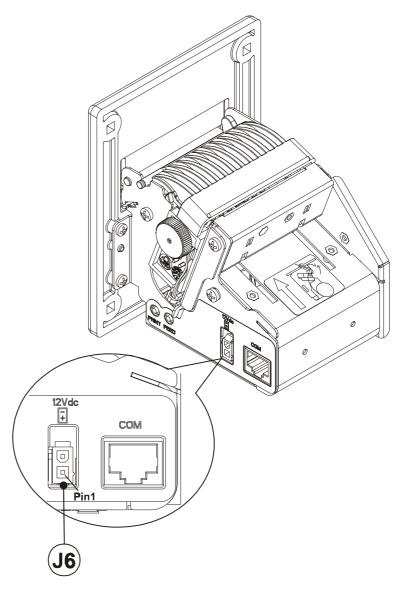
The TG558 printer is the ideal solution for :

- kiosks (internet, public offices, bookings, bank transactions);
- · self-service;
- ticket dispensing (public/private transport, automatic payments);
- parking lots;
- queue management systems;
- · instruments;
- Gaming machines;
- · Vending machines;
- instant lotteries

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#### 1.1 CONNECTIONS

(Fig.1.1)



#### 1.1.1 Power supply

The printer TG558 is equipped with a 2 pin male molex connector serie 5569 (Vertical), for the power supply (J6). The signals on the pins of the feed connector are as follows:

Model no. type: Header: 90° Molex serie 5569 (no. 39-30-1020)

Housing: Molex serie 5557 (no. 39-01-3022)

PIN	SIGNAL	DESCRIPTION
1	+ 12 V	POWER
2	GND	SIGNAL GROUND



#### WARNING:

Be sure to observe the correct polarity for the power supply.

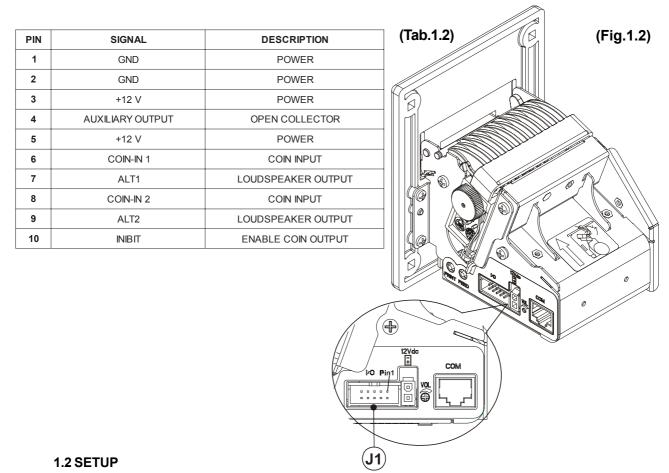
#### 1.1.2 Input/Output connector for TG558 display

The TG558 printer is equipped, for power supply of Coin and loudspeaker and additional signals, with a 10-pin screw terminal connector (J1). The signals on the connector pins are as follows:

Model no. type: Header: 90° connector for FFC/FPC (pitch 2.54mm)

Housing: 10 pin flat cable (pitch 2.54 mm)

(Tab.1.1)



The printer enables the configuration of the printer default parameters (see fig. 1.3). The parameters affected during configuration are:

- PRINT MODE
- Columns: 24 columns<sup>D</sup>, 40 colums e 42 colums.
- **Print Direction:** Normal<sup>D</sup> or Reverse.
- **Print mode:** Little<sup>D</sup>, Double width (2 x Width), Double height (2 x Height), Expanded.
- Automatic Feed: CR disabled or CR enabled<sup>D</sup>.
- Auto Feed (1): Enable<sup>D</sup>, Disable.
- **Red intensity** (2): 0,1,2,3,4,5 $^{D}$ ,6,7.
- **SERIAL MODE**
- Baud Rate: 38400, 19200, 9600<sup>p</sup>, 4800, 2400, 1200, 600.
- Protocol: 8, N,1<sup>D</sup> (8 bit, parity none, 1 Stop bit)

  - 8, E,1 (8 bit, parity even, 1 Stop bit) 8. O.1 (8 bit, parity odd, 1 Stop bit)
  - 7, N, 2 (7 bit, parity none, 2 Stop bit)
  - 7, E, 1 (7 bit, parity even, 1 Stop bit)
  - 7, O, 1 (7 bit, parity odd, 1 Stop bit)
- Flow control: CTS-RTS, XON-XOFF<sup>D</sup>.
- REAL TIME CLOCK
- **Printing seconds setting:** Enables seconds, disables seconds<sup>D</sup>.
- **DST setting** (4): Enable DST<sup>D</sup>, Disable DST.

Notes: The parameters indicates with a <sup>D</sup> symbol are the default values.



(1) NOTE: If the function is enabled when the printer receives a characters number equal to the line buffer the next character will place on the left margin in a new line.



(2) **NOTE:** Using two-colour thermal paper is possible to set different red tonality.



(3) NOTE: This setting is available only with RTCK printer version (Real Time Clock) and display

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(4) **NOTE:** This parameter enable the automatic change of the solar time and summer time.

#### **SET UP DEFAULT:**

24 COLUMNS (font 16 x 24)

PRINT DIR. = NORMAL

PRINT MODE. = LITTLE

CR-LF HONOR CR

AUTO FEED = ENABLE

RED INTENSITY = 5

SERIAL PORT SELECTED

BAUD RATE = 9600

PROTOCOL = 8, N, 1

FLOW CONTROL = XON - XOFF

DISABLE SECONDS

**ENABLE DST** 

(Fig.1.3)

#### 1.2.1 Configuration of REPORT and FEED keys

If, when the printer is switched on, both of the **PRINT** and **FEED** keys are held down, the printer enters configuration mode and prints the first modifiable parameter. At this point, each time the **PRINT** key is pressed, the parameter changes and its current value is printed. Once the desired value has been obtained, press the **FEED** key to proceed to the next parameter, and so on. Once all the parameters have been run through, the printing of a message signals the end of setting procedure.

#### 1.3 AUTOTEST

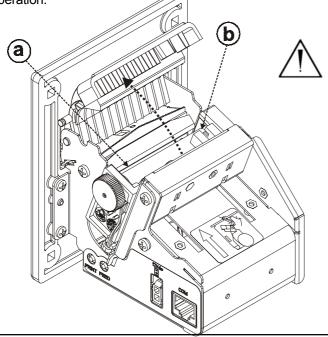
To run the autotest, press the **FEED** key while switching on the printer. During the running of the autotest, the character fonts and logos stored inside the printer are printed.

#### **1.4 MAINTENANCE**

#### 1.41 Changing the paper roll

Every time you change the paper, referred to fig.1.4, need to check as follows:

• Lift the wicket relative to paper roll compartment, and check that there are no scraps of paper at the area indicated with a) letter near the printing head. If there are, remove the scraps before proceeding with any other operation.



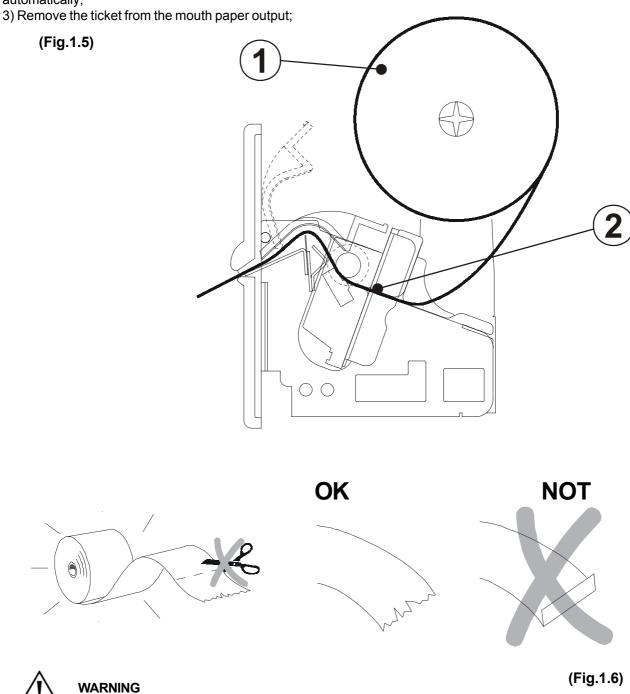
(Fig.1.4)

#### **WARNING**

Periodically remove accumulated paper dust from the drag paper roll and the area around the paper outfeed sensor (see fig. 1.4 in the he points indicated with b letter). To clean, do not use harsh chemical solvents; the use of a soft, alcoholmoistened cloth is recommended.

To change the paper roll in the printer, proceed as follows (see the fig. 1.5):

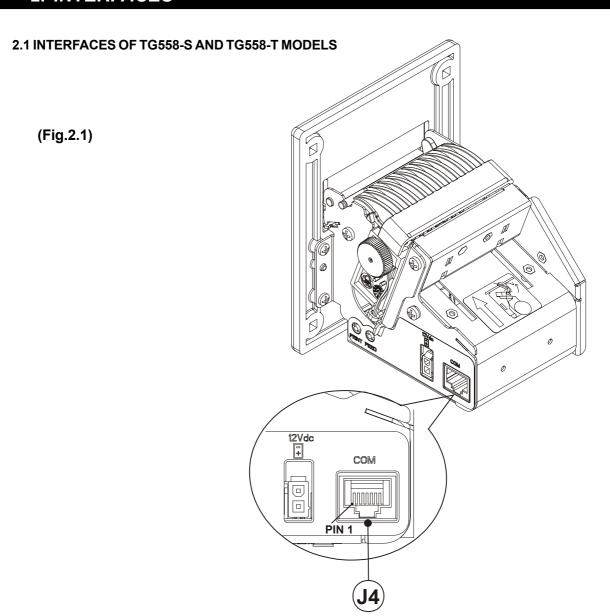
- 1) Position the paper roll (1), so that it rotates in the direction shown (fig.1.5);
- 2) Insert the end of the paper roll in the print mechanism (2) and wait until the roll loads automatically;



#### 1.4.2 Notes for installation and using the printer

Before inserting the paper, ensure that it isn't cut evenly.

The printer in horizontal position must be installed with angularity tolerance of  $\pm 10^{\circ}$ .



#### 2.1.1 RS232/TTL Serial

The printer with RS232/TTL serial interface is connected by means of a RJ45 connector J4 (see fig. 2.1). In the following table, the signals present on the connector are listed:

(Tab.2.1)

PIN	SIGNAL	DESCRIPTION
1	VCC	+ 5V
2	GND	GROUND
3	TXD	DATA TRANSMISSION
4	RXD	DATA RECEPTION
5	RTS	READY TO SEND
6 +VIN + 12V		+ 12V
7	NC	NOT CONNECTED
8	NC	NOT CONNECTED

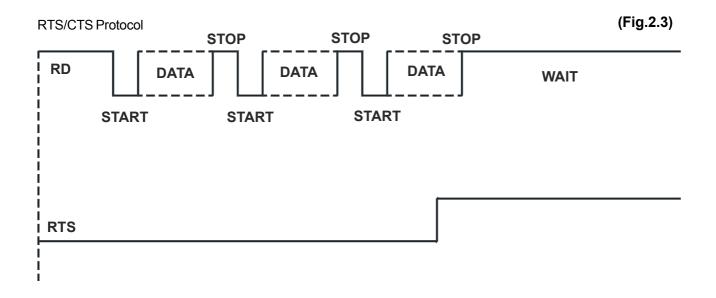
#### 2. INTERFACES

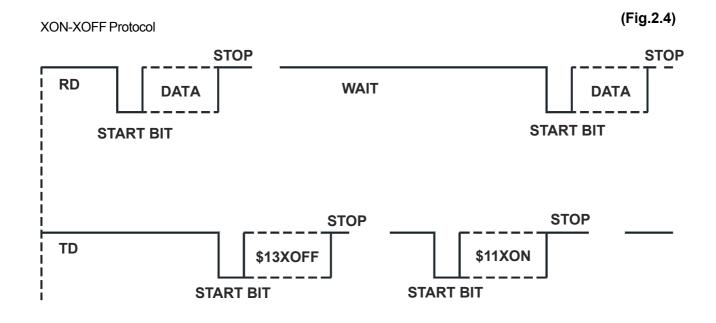
In the serial protocol, the signals which characterize communication are TD, RD and RTS if the RTS/CTS protocol has been selected; alternatively, if the XON/OFF protocol has been selected, the signals are TD and RD.



#### NOTES:

- (1) Bit 7 is present only if in the set-up was enabled 8 bit character ("Data length").
- (2) Parity Bit is present only if in the set-up the parity was enabled.





#### 3.1 CONTROL CHARACTERS

LEGEND:

Symbol Function

\$ indicates the representation of the command hexadecimal value (for example \$40 means HEX

40).

{} indicates an ASCII character not performable.

**n**, **m**, **t**, **x**, **y** are additionals/optional parameters that can have different values.

The command table lists all the commands for the management of the printer functions.

The commands can be transmitted to the printer at any moment, but they will only be carried out when the characters previously transmitted have been printed or the commands previously transmitted have been carried out. There are no commands with priority status; all the commands are carried out when the circular buffer is free to do so.

#### **COMMAND TABLE**

(Table 3.1)

HEX	ASCII	Description	Notes
\$00	NUL	Prints in small characters	
\$01	SOH	Prints in double width	
\$02	STX	Prints in double height	
\$03	ETX	Expanded printing	
\$04	EOT	Restores small character printing	
\$08	BS	Moving back of one character	
\$0A	LF	Forward feeds one line	
(n) \$0B	VT	Forward feeds (n) line	
\$0D	CR	Prints line buffer	
\$0F	SI	Sets CRLF mode	
\$10 \$04 (n)	DLE EOT n	Real-time status transmission	
\$11	DC1	Graphic mode	
\$12	DC2	Prints time and date	TG558-D,RTCK opt.
\$13	DC3	Sets time and date	TG558-D,RTCK opt.
\$14	DC4	Transmits time and date in serial	TG558-D,RTCK opt.
\$18	CAN	Cancel print data	
\$1B \$23 n	ESC # n	Transmit printer ID	
\$1B \$28 nL nH	ESC (vnLnH	Set relative vertical print position	
\$1B \$2D (n)	ESC - n	Turn underline mode on/off	
\$1B \$30	ESC 0	Select 1/8-inch line spacing	
\$1B \$32	ESC 2	Select 1/6-inch line spacing	
\$1B \$33 (n)	ESC 3 n	Set line spacing using minimum units	
\$1B \$40	ESC @	Resets the printer	
\$1B \$41	ESC A	Executes [n] dots line feed	
\$1B \$44	ESC D	Enters date in print buffer	TG558-D,RTCK opt
\$1B \$49	ESC I	Selects Font A	
\$1B \$4A (n)	ESC J n	Print and feed paper	
(dd) \$1B \$4D	(dd) ESC M	Writes value (dd) in print mode	
\$1B \$4E	ESC N	Sets normal mode printing	
\$1B \$51	ESC Q	Enables underlining	
\$1B \$52	ESC R	Sets reverse mode printing	
\$1B \$54	ESC T	Enters time in print buffer	TG558-D,RTCK opt
\$1B \$55	ESC U	Enters date (mm:dd:yy) in print buffer	TG558-D,RTCK opt
\$1B \$57	ESC W	Prints graphic line of 200 dpi	
\$1B \$58	ESC X	Prints in red	
	_		

**CUSTOM** 

HEX	ASCII	Description	Notes
\$1B \$61	(dd) ESC a	Selects justification	
\$1B \$62	(dd) ESC b	Selects number of dot spaces	
\$1B \$63	ESC c	Management of bar code printing	
\$1B \$64 (n)	ESC d n	Print and feed paper n lines	
\$1B \$68	ESC h	Selects Font B	
\$1B \$69	ESC i	Selects Font B	
\$1B \$6D	ESC m	Transmits print mode in serial	
\$1B \$71	ESC q	Disables underlining	
\$1B \$72 (n)	ESCrn	Set/reset red printing mode	
\$1B \$73	ESC s	Transmits next character in serial	
\$1B \$78 n	ESC x n	Select speed/current mode	
\$1B \$7B (n)	ESC { n	Set/cancel upside-down character printing	
\$1B \$F0	ESC {}	Transmission of printer real time clock	TG558-D,RTCK opt
\$1B \$F1	ESC {}	Setting of printer real time clock	TG558-D,RTCK opt
\$1B \$FA n xL xH yH yL	ESC { } n xL xH yH yL	Print logo	
\$1D \$24 n	GS \$ n	Set absolute shift into a graphic line	
\$1D \$44 s1 s2 s3 s4	GS D s1 s2 s3 s4	Visualization on display of a string characters	Only for TG558-D
\$1D \$45 d1d8	GS E d1d8	Display management in graphic mode	Only for TG558-D
\$1D \$46 n	GS F n	Setting graphic display effects	Only for TG558-D
\$1D \$49 (n)	GSIn	Transmit printer ID	
\$1D \$4C n m t d1dk	GS L n m t d1dk	Receive graphic display effect from serial port	Only for TG558-D
\$1D \$57 nL nH	GS W nL nH	Set printing area width	
\$1D \$59 n	GS Y n	Sets height in printing	
\$1D \$5A n	GS Z n	Receive n bytes from serial port	
\$1D \$62 n	GS b n	Prints formatted barcode	
\$1D \$64 n	GS d n	Enable/Disable scrolling text	Only for TG558-D
\$1D \$6F n	GS o n	Management of output lines	Only for TG558-D
\$1D \$72 n	GSrn	Transmit status	
\$1D \$EB	GS { }	Receive, Save and Play melody	Only for TG558-D

**NOTE:** commands without specifications in the "Note" column are valid for all the models; otherwise the "Note" column indicate a command that is valid for a specific model as follows:

- TG558-D printer version with display;
- RTCK opt. printer version with real time clock option.

The following pages provide a more detailed description of each command.

\$00				
[Name]	Small chara	acter printing		
[Format]	ASCII	NUL		
	Hex	00		
	Decimal	0		
[Description]	The printer p	orints in small c	haracters (normal)	
[Notes]	• The comma	ands \$00 - \$04	do not cancel the print buffe	r
	TG558		3-2	CUSTOM

 $\bullet$  The commands which modify the direction of the characters are only active at the

beginning of the line

[Default] Setting the "Print mode" parameter in the printer set-up

[Reference] \$01, \$02, \$03, \$04, \$1D \$21, \$1B \$4D

[Example]

\$01

[Name] Double width printing

[Format] ASCII SOH

Hex 01

Decimal 1

[Description] The printer prints in double width format

[Notes] • The commands \$00 - \$04 do not cancel the print buffer

• The commands which modify the direction of the characters are only active at the

beginning of the line

[Default] Setting the "Print mode" parameter in the printer set-up

[Reference] \$00, \$02, \$03, \$04, \$1D \$21, \$1B \$4D

[Example]

\$02

[Name] Double height printing

[Format] ASCII STX

Hex 02

Decimal 2

[Description] The printer prints in double height format.

[Notes] • The commands \$00 - \$04 do not cancel the print buffer

• The commands which modify the direction of the characters are only active at the

beginning of the line

[Default] Setting the "Print mode" parameter in the printer set-up

[Reference] \$00, \$01, \$03, \$04, \$1D \$21, \$1B \$4D

[Example]

\$03

[Name] Expanded printing

[Format] ASCII ETX

Hex 03

Decimal 3

[Description] The printer prints in expanded character mode

[Notes] • commands \$00 - \$09 do not cancel the print buffer

• the commands which modify the dimensions of the characters are only active at the

beginning of the line

[Default] Setting the "Print mode" parameter in the printer set-up

[Reference] \$00, \$01, \$02, \$04, \$1D \$21, \$1B \$4D

[Example]



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\$04 [Name] Restore small character printing [Format] **ASCII EOT** Hex 04 Decimal 4 [Description] The printer resumes printing with small characters [Notes] • The commands \$00 - \$09 do not cancel the print buffer • the commands which modify the dimensions of the characters are only active at the beginning of the line [Default] Setting the "Print mode" parameter in the printer set-up [Reference] \$00, \$01, \$02, \$03, \$1D \$21, \$1B \$4D [Example] \$07 [Name] Cancel print data buffer **ASCII BEL** [Format] 07 Hex 7 Decimal [Description] Deletes all the print data in the current print buffer. [Notes] • If data that existed in the previously specified printing area also exists in the currently specified printing area, it is deleted.

BS	

[Name] Moving back of one character

[Format] ASCII BS
Hex 08
Decimal 8

[Description] Moves print position to previous character.

[Notes] This command can put two characters at the same position.

[Default] [Reference] [Example]

[Default]
[Reference]
[Example]

#### \$0A

[Name] Forward feeds one line

[Format] ASCII LF Hex 0A

Decimal 10

[Description] Forward feeds one line equivalent to a line of print

[Notes] • This command brings about the printing of the contents of the line buffer

[Default]

[Reference] \$1B \$32, \$1B \$33

[Example]

**CUSTOM** 

(n) \$0B

[Name] Forward feeds (n) lines

[Format] ASCII VT

Hex 0B

Decimal 11

[Description] Carries out the number of line feeds specified in (n)

•The number must be ASCII and between 0 and 9 (when n=0 the command is ignored)

• This command clears the line buffer

[Default]

[Reference] \$0A

[Example] To forward feed fast, 5 lines at a time:

\$35 \$0B (or 5 and the command \$0B)

CR

[Name] Print and carriage return

[Format] ASCII CR

Hex 0D Decimal 13

[Description] When autofeed is "CR enabled", this command functions in the same way as \$0A,

otherwise it is disregarded.

[Notes] • Sets the print position to the beginning of the line.

[Default] See "Autofeed in setup" parameter.

[Reference] \$0A

[Example]

\$0F

[Name] Set CRLF mode

[Format] ASCII SI

Hex 0F

Decimal 15

[Description] Inhibits the command \$0D maintaining enabled only the command \$0A for printing

[Notes] • To disable this option, reset the printer

• This command clears the line buffer

• On switching on the default value is in the Option Register

[Default] Setting in the option register by means of the front keys

[Reference] \$0D

[Example]

DLE EOT n

[Name] Real-time status transmission

[Format] ASCII DLE EOT n

Hex 10 04 n Decimal 16 4 n

[Range]  $1 \le n \le 6$ 

[Description] Transmits the selected printer status specified by *n* in real time according to the following

parameters:



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n = 1 transmit printer status
 n = 2 transmit off-line status
 n = 3 transmit error status

n = 4 transmit paper roll sensor status

n = 5 transmit paper sensors status

n = 6 transmit input/output status

This command is executed when the data buffer is full.

• This status is transmitted whenever data sequence \$10 \$04 n is received  $(1 \le n \le 6)$ .

[Default]

[Notes]

[Reference] [Example] See tables below.

n=1: Printer status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED
1	-	-	-	RESERVED
2	-	-	-	RESERVED
3	Off	00	0	On-line.
	On	08	8	Off-line.
4	-	-	-	RESERVED
5	-	-	-	RESERVED
6	Off	00	0	Drag paper motor off
	On	40	64	Drag paper motor on
7	-	-	-	RESERVED

#### n=2: Off-line status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED.
2	Off	00	0	REPORT button not pressed
	On	04	4	REPORT button pressed
3	Off	00	0	FEED button not pressed
	On	08	8	FEED button pressed
4	-	-	-	RESERVED.
5	Off	00	0	Paper present.
	On	20	32	Paper end.
6	Off	00	0	No error.
	On	40	64	Error.
7	-	-	-	RESERVED.

#### n=3: Error status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	1	1	RESERVED.
2	-	-	-	RESERVED.
3	-	ı	1	RESERVED.
4	-	-	-	RESERVED.
5	1	ı	1	RESERVED.
6	Off	00	0	No auto-recoverable error.
	On	40	64	Auto-recoverable error.
7	-	-	-	RESERVED.



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n=4: Paper roll sensor status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED.
2	-	-	-	RESERVED.
3	-	-	-	RESERVED.
4	-	-	-	RESERVED.
5, 6	On	60	96	Fixed to On. The paper end is detected by the sensor
7	-	-	-	RESERVED.

#### n=5: Paper sensor status

Bit	Off/On	Hex	Decimal	Function	
0	-	-	-	RESERVED.	
1	-	-	-	RESERVED.	
2,3	Off	00	0	Paper end sensor Paper present	
	On	0C	12	The paper end is detected by the sensor	
4	-	-	-	RESERVED.	
5, 6	Off	00	0	Near Paper end sensor Paper present	
	On	40	64	The near paper end is detected by the sensor	
7	-	-	-	RESERVED.	

#### n=6: Input/Output status

Bit	Off/On	Hex	Decimal	Function	
0	-	-	-	RESERVED.	
1	-	-	-	RESERVED.	
2	Off	00	0	COIN 1 status at low level	
	On	04	4	COIN 1 status at high level	
3	Off	00	0	COIN 2 status at low level	
	On	08	8	COIN 2 status at high level	
4	-	-	-	RESERVED.	
5	Off	00	0	INHGET status at low level	
	On	20	32	INHGET status at high level	
6	Off	00	0	AUXOUT status at low level	
	On	40	64	AUXOUT status at high level	
7	-	-	-	RESERVED.	

#### \$11

[Name] Graphic mode

[Format] ASCII DC1

Hex 11 Decimal 17

[Description] Enables graphic mode:

a line in 24 column mode corresponds to 144 horizontal dots divided into 24 blocks of 6 dots each; a line in 40 column mode corresponds to 240 horizontal dots divided into 40

blocks of 6 dots each.

[Notes] To obtain graphic printing, enter the command \$11 at the beginning of each line. The

format of the byte in graphic configuration is:



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**X R P6 P5 P4 P3 P2 P1** D7 D6 D5 D4 D3 D2 D1 D0

where:

**X** is not used (0 is recommended);

R must be fixed at level 1;

P1,...,P6 are the graphic dot data (1 prints, 0 does not print).

The P6 bit of the string of dots transmitted is printed on the left and the others follow from left to right (P5, P4, P3, P2, P1) as shown:

1st byte → 2nd byte → 3rd byte →

P6 P5 P4 P3 P2 P1 P6 P5 P4 P3 P2 P1 P6 P5 P4 P3 P2 P1

[Default]

[Reference]

[Example] To print a line of dots, transmit:

\$11, n x \$7F (where n is the number of characters per line), \$0D.

To print an empty line, transmit:

\$11, \$40, \$0D.

#### \$12

#### [Name] Print time and date

[Format] ASCII -

Hex 12 Decimal 18

[Description] Prints the time and date in the following format:

hh: mm dd - mm -yy

If seconds printing is enabled, the format will be:

hh:mm:ssdd-mm-yy

[Notes] • The command resets the line

• This command is present only in the printer version with display (TG558-D) and RTCK

option.

[Default]

[Reference] \$13, \$14

[Example]

#### \$13

#### [Name] Set time and date

[Format] ASCII -

Hex 13 Decimal 19

[Description] This command sets the time and date in two possible ways:

the first uses 24 hour clock and the second the 12-hour am/pm clock. In the first case, transmits the 10 ASCII characters representing the time and the date followed by \$13 and in the second case transmits the 10 ASCII characters representing the time and the

date preceded by "A" or "P" and followed by \$13.

[Notes] • It is advisable to transmit the command \$0D first, in order to empty the print buffer.

• This command is present only in the printer version with display (TG558-D) and with RTCK option.

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[Default]



[Reference] \$12,\$14

[Example] To set the time 12:45 on 19-01-93, transmit

1 2 4 5 1 9 0 1 9 3 \$13

\$31\$32 \$34 \$35 \$31 \$39 \$30 \$31 \$39 \$33 \$13

To set the time A 12:45 on 19-01-93, transmit

A 1 2 4 5 1 9 0 1 9 3 \$13

\$41 \$31 \$32 \$34 \$35 \$31 \$39 \$30 \$31 \$39 \$33 \$13

\$14

[Name] Transmit the time and date in serial

[Format] ASCII -

Hex 14 Decimal 20

[Description] Transmit the time and date on serial port with ASCII format (11 ASCII characters):

hours/minutes/day/mont h/year + (CR) \$0D

[Notes] • This command is present only in the printer version with display (TG558-D) and RTCK

option.

[Default]

[Reference] \$13, \$14

[Example]

\$1B \$23 n

[Name]

Transmit printer ID

[Format] ASCII ESC # n

 Hex
 1B
 23
 n

 Decimal
 27
 73
 n

[Range]  $1 \le n \le 3, 49 \le n \le 51$ 

[Description] Transmits the printer ID specified by *n* follows:

n	Printer ID	Specification
1, 49	Printer model ID	\$68 (58mm model) \$69 (35mm model)
2, 50	Not used	Fixed on \$00
3, 51	ROM version ID	Depends on version ROM (4 char)

[Notes]

• This command is executed when the data is processed in the data buffer. Therefore, there could be a time lag between command reception and data transmission, depending

on data buffer status.

[Default]
[Reference]
[Example]

#### \$1B \$28 \$76 nL nH

[Name] Set relative vertical print position

[Format] ASCII ESC ( v nL nH

Hex 1B 28 76 nL nH Decimal 27 10 118 nL nH

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[Range]  $0 \le nL \le 255$ 

 $0 \le nH \le 255$ 

[Description] Sets the print vertical position based on the current position by using the horizontal or

vertical motion unit.

• This command sets the distance from the current position to  $[(nL + nH \times 256) \times (nL + nH \times 256)]$ 

horizontal or vertical motion unit )].

[Notes] • When the starting position is specified by N motion unit to the bottom:

nL + nH x 256=N

When the starting position is specified by N motion unit to the top (negative direction),

use the complement of 65536:

nL + nH x 256=65536 - N

• In standard mode, the vertical motion unit is used.

[Default]
[Reference]
[Example]

#### \$1B \$30

[Name] Select 1/8-inch line spacing.

[Format] ASCII ESC 0

 Hex
 1B
 30

 Decimal
 27
 48

[Description]

Selects 1/8-inch line spacing.

[Notes] [Default]

[Reference] \$1B \$32, \$1B \$33

[Example]

#### \$1B \$32

[Name] Set line spacing at 1/6 inch.

[Format] ASCII ESC 2

 Hex
 1B
 32

 Decimal
 27
 50

[Description]

Selects 1/6 inch line spacing.

[Notes]

[Default]

[Reference] \$1B \$30, \$1B \$33

[Example]

#### \$1B \$33 n

[Name] Set line spacing.

[Format] ASCII ESC 3 n

 Hex
 1B
 33
 n

 Decimal
 27
 51
 n

[Range]  $0 \le n \le 255$ 

[Description] Sets the line spacing at [ $n \times$  (vertical or horizontal motion unit)] inches.

[Notes] • Changing the horizontal or vertical motion unit does not affect the current line spacing.

• However, the value cannot be less than the minimum vertical movement amount.

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• In standard mode, the vertical motion unit is used.

• The maximum line spacing is n = 255 (  $\cong 32$ mm).

[Default]
[Reference]

n = 32 (1/6 inch) \$1B \$30, \$1B \$32

[Example]

ESC @

[Name] Initialize printer

[Format] ASCII ESC @

Hex 1B 40 Decimal 27 64

[Description] Clears the data in the print buffer and resets the printer mode to that in effect when power

was turned on.

[Notes] • The data in the receiver buffer is not cleared.

• The macro definitions are not cleared.

[Default] [Reference] [Example]

#### \$1B \$41 [nH] [nL]

[Name] Executes [n] dots line feed

[Format] ASCII ESC A nH nL

 Hex
 1B
 41
 nH
 nL

 Decimal
 27
 65
 nH
 nL

[Description] Executes [N] dots line feed where  $N = 256 \times nL + nH$ .

[Notes] • 1 mm is equivalent to 8 dot line.

[Default] [Reference]

[Example] To executes a 40 mm of feed transmit:

\$1B \$41 \$01 \$40(or the ESC A command and the value 40mm x8 dot).

#### \$1B \$44

[Name] Enters the date in the print buffer

[Format] ASCII ESC D Hex 1B 44

Decimal 27 68

[Description] Enters in the buffer the date of the calendar clock intsalled inside the printer, in the

following format:dd - mm - yy .

[Notes] • The date is printed in 8 characters: if there is not enough space in the buffer, it will not

be printed.

• It does not zero-set the line buffer

• This command is present only in the printer version with display (TG558-D) and RTCK

option.

[Default]

[Reference] \$1B \$54, \$1B \$55 [Example] If you wish to write:

DATE: 11-09-93 TEST OK



transmit DATE: \$1B \$44 TEST TEST OK \$0D

to print just the date \$1B \$44 \$0D

\$1B \$49

[Name] Selects Font A

[Format] ASCII ESC I

 Hex
 1B
 49

 Decimal
 27
 73

[Description] After receives this command the Font A is selected and the printer is ready to use this

configuration. the number of columns by row is indicated as follows:

TG558	Font A
58mm model	24 columns
35mm model	17 columns

[Notes]

[Default]

[Reference] \$1B \$69

[Example]

#### \$1B \$4A n

[Name] Print and feed paper.

[Format] ASCII ESC J n

 Hex
 1B
 4A
 n

 Decimal
 27
 74
 n

[Range]  $0 \le n \le 255$ 

[Description] Prints the data in the print buffer and feeds the paper [ $n \times (vertical or horizontal motion]$ 

unit) inches.

[Notes] • After printing is over, this command sets the print starting position at the beginning of

the line.

The paper feed amount set by this command does not affect the values set by \$1B \$32

or **\$1B \$33**.

• In standard mode, the vertical motion unit is used.

• The maximum paper feed amount is 31.8 mm.

[Default]

[Reference]

[Example]

#### (dd) \$1B \$4D

[Name] Writes the value (dd) in the print mode.

[Format] ASCII dH dL ESC M

Hex dH dL 1B 4D Decimal dH dL 27 77

[Description] Sets the print mode default parameters

**\$00** small characters

**\$01** double width printing **\$02** double height printing

**\$03** expanded printing

[Notes] • The setting is stored in EEPROM

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[Default] Setting by means of the front keys

[Reference] \$1B \$6D

[Example] For duoble height printing, transmit:

\$30 \$32 \$1B \$4D

\$1B \$4E

[Name] Set printing in NORMAL

[Format] ASCII ESC N

 Hex
 1B
 4E

 Decimal
 27
 78

[Description] Selects printing in NORMAL mode.
[Notes] • Setting remains until next set.

[Default] Setting the "Print mode" parameter in the printer set-up.

[Reference] \$1B \$52

[Example]

\$1B \$51

[Name] Enable underlined printing

[Format] ASCII ESC Q

 Hex
 1B
 51

 Decimal
 27
 81

[Description] After this command has been received, the characters are printed underlined.

[Notes] [Default]

[Reference] \$1B \$71

[Example]

\$1B \$52

[Name] Set printing in REVERSE

[Format] ASCII ESC R

 Hex
 1B
 52

 Decimal
 27
 82

[Description] Set printing in REVERSE mode: the ticket comes out from printer with the strings

straight and oriented on the left to right.

[Notes]

[Default] Setting the "Print mode" parameter in the printer set-up.

[Reference] \$1B \$4E

[Example]

\$1B \$54

[Name] Enters the time in the print buffer

[Format] ASCII ESC T

 Hex
 1B
 54

 Decimal
 27
 84

[Description] Enters in the buffer the time of the calendar clock intsalled inside the printer, in the

following format: hh: mm.

[Notes] • The time is printed in 5 characters: if the seconds option is enabled, in 8 characters: if

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there is not enough space in the buffer, it will not be printed.

• It does not zero-set the line buffer

• This command is present only in the printer version with display (TG558-D) and RTCK option.

[Default]

[Reference] \$1B \$44, \$1B \$55 [Example] If you wish to write:

HOUR: 16: 45 TEST OK

transmit HOUR: \$1B \$54 TEST TEST OK \$0D

to print just the time \$1B \$54 \$0D

#### \$1B \$55

[Name] Enters the date (mm - dd- yy) in the print buffer

[Format] ASCII ESC U Hex 1B 55

Decimal 27 85

[Description] Enters in the buffer the date of the calendar clock intsalled inside the printer, in the

American style format: mm-dd-yy.

[Notes] • The date is printed in 8 characters: if there is not enough space in the buffer, it will not

be printed.

• It does not zero-set the line buffer

• This command is present only in the printer version with display (TG558-D) and RTCK

option.

[Default]

[Reference] \$1B \$44, \$1B \$54 [Example] If you wish to write:

DATE: 09-11-93 TEST OK

transmit DATE: \$1B \$55 TEST OK \$0D

to print just the date \$1B \$55 \$0D

#### \$1B \$57

[Name] Prints a graphic line at 203 dpi
[Format] ASCII ESC W

 Hex
 1B
 57

 Decimal
 27
 87

[Description] After receiving this command, the printer waits for *n* bytes which correspond to an entire

graphic line where n assumes : n = 34byte for 35mm model

n = 48 bytes for 58mm model

[Notes]

[Default]

[Reference]

[Example]

#### \$1B \$58

[Name] Prints in red

[Format] ASCII ESC X

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 Hex
 1B
 58

 Decimal
 27
 88

[Description]

[Notes]

[Default]

[Reference]

[Example]

After receiving this command, the printer prepare itself to print in red.

#### ESC a n

[Name] Select justification

[Format] ASCII ESC a n

 Hex
 1B
 61
 n

 Decimal
 27
 97
 n

[Range]  $0 \le n \le 2, 48 \le n \le 50$ 

[Description] Aligns all data in one line to the specified position, where *n* selects the type of justifica-

tion as follows:

n Justification 0, 48 Flush left 1, 49 Centered 2, 50 Flush right

[Notes] • This command is only enabled when inserted at the beginning of a line.

• Lines are justified within the specified printing area.

• Spaces set by HT, ESC \$ and ESC \ will be justified according to the previously-

entered mode.

[Default]

[Reference]

[Example] Flush left

n = 0

ABC ABCD ABCDE ABCD ABCD Flush right

ABC

ABCD

ABCDE

#### (dd) \$1B \$61

[Name] Selects the number of dot spaces

[Format] ASCII (dd) ESC b

 Hex
 (dd)
 1B
 62

 Decimal
 (dd)
 27
 98

[Description] (dd) are two ASCII characters which identify a hexadecimal byte and correspond to the

number of dot lines between one print line and another.

[Notes]

[Default] = 0

[Reference] [Example]

\$1B \$63

[Name] Management of bar code printing

[Format] ASCII ESC c [code] [height] [position] [options]

[length] [data]

Hex 1B 63

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Decimal 27 99

[Description]

This command executes a barcode printing depending on the following parameters:

[code] = Type of bar code (ASCII character) The values are :

I Interleved 2/5

C Code 39

B CodaBar

e EAN8

E EAN13

[height] = Number of dot lines in 1/8 mm units.

[position]= Left hand margin, expressed in 1/8 mm units.

[options] = Specify the bar code options trough a byte. In the following tables are listed alls the possibles values of single bit inside of byte:

Bit 0	Function	Description
0	Check digit is not printed	Check digit
1	Check digit is printed	

Bit 1	Function	Description
-	Not used	-

Bit 3	Bit 2	Function	Description
0	0	no	HRI position
0	1	above	
1	0	below	
1	1	above and below	

Bit 5	Bit 4	Function	Description
0	0	normal	barcode length
0	1	double	
1	0	triple	
1	1	Not used	

Bit 1	Function	Description
6	Not used	-
7	Not used	-

[maximum length] Specify the characters number to print trough a byte; in following are listed the maximum lengths allowed :

Interleaved 2/5 = 12 characters
Code 39 = 10 characters
CodaBar = 10 characters

EAN8 = 8 characters

EAN13 = 13 characters



[data] = Expressed in ASCII.

[Notes]
[Default]
[Reference]
[Example]

In the following example is indicated the command sequence to print a barcode :

\$1B, 'N', \$1B, 'c', 'C', \$50, \$3C, \$14, \$06, 'TG558'



where:

\$1B, 'N' (sets the printing in normal mode) \$1B, 'c', (barcode printing command) 'C', (barcode type= Code 39) \$50, (barcode height = 10 mm) \$3C, (starting position = 7,5 mm)

\$14, (HRI printing below, barcode width double)

\$06, (characters number to print)

'TG558' (characters to print)

#### ESC d n

[Name] Print and feed paper *n* rows

[Format] ASCII ESC d n

 Hex
 1B
 64
 n

 Decimal
 27
 100
 n

[Range]  $0 \le n \le 255$ 

[Description] Prints the data in the print buffer and feeds the paper *n* rows.

[Notes] • Sets the print starting position at the beginning of the line.

• This command does not affect the line spacing set by \$1B \$32 or \$1B \$33.

• The maximum paper feed amount is 200 rows. Even if a paper feed amount of more

than 200 rows is set, the printer feeds the paper only 200 rows.

[Default]

[Reference] \$1B \$32, \$1B \$33

[Example]

#### \$1B \$68

[Name] Selects Font B

[Format] ASCII ESC h
Hex 1B 68

Decimal 27 104

[Description] After receives this command the Font B is selected and the printer is ready to use this

configuration. the number of columns by row is indicated as follows:



TG558	Font B
58mm model	42 columns
35mm model	28 columns

[Notes]

[Default]

[Reference] \$1B

\$1B \$49, \$1B \$69

[Example]

\$1B \$69

[Name] Selects Font B

[Format] ASCII ESC i

Hex 1B 69

Decimal 27 105

[Description] After receives this command the Font B is selected and the printer is ready to use this

configuration. the number of columns by row is indicated as follows:

TG558	Font B
58mm model	40 columns
35mm model	28 columns

[Notes]

[Default]

[Reference]

\$1B \$49, \$1B \$68

[Example]

#### \$1B \$6B

[Name] Transmits the second configuration register in serial

[Format] ASCII ESC k
Hex 1B 6B

Decimal 27 107

[Description] Transmits through serial port the value of second configuration register in ASCII format on

two characters wich represent the hexadecimal value.

[Notes]

[Default]

[Reference] \$1B \$4B

[Example] The response is on two bytes. E.g. if you receive :

\$30 \$39

it means that the default register is 00001001

#### \$1B \$6D

[Name] Transmits the printing mode in serial

[Format] ASCII ESC m

 Hex
 1B
 6D

 Decimal
 27
 109

[Description] Transmits through serial port the printing mode configuration.

[Notes] • If the printer using a parallel protocol, it doesn't transmits anything.

[Default] Setting in the option register by means on the front keys

[Reference]

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[Example] The response is on two bytes. E.g. if you receive:

\$30 \$32

it means that printing is in double height mode

\$1B \$70

[Name] Transmits the configuration register in serial

[Format] ASCII ESC p

 Hex
 1B
 70

 Decimal
 27
 112

[Description] Transmits through serial port the option register byte.

[Notes] • If the printer using a parallel protocol, it doesn't transmits anything

[Default]

[Reference] \$1B \$47, \$1B \$4B, \$1B \$6B

[Example] The response is on two bytes. E.g. if you receive :

\$30 \$39

it means that the default configuration is 00001001

\$1B \$72 n

[Name] Set/reset red printing mode

 $[Format] \hspace{1cm} ASCII \hspace{1cm} ESC \hspace{1cm} r \hspace{1cm} n \\$ 

 Hex
 1B
 72
 n

 Decimal
 27
 114
 n

[Range]  $0 \le n \le 1, 48 \le n \le 49$ 

[Description] Sets and resets red printing mode.

n Function

0, 48 Reset red printing mode1, 49 Set red printing mode

[Notes] • The printer prints only entire lines in red, not individual characters.

• The printer prints red only if enabled (see Setup).

[Default]

[Reference] [Example]

n = 0

\$1B \$73

[Name] Transmits the next character in serial

[Format] ASCII ESC s Hex 1B 73

Decimal 27 115

[Description]

Transmits the next character it receives on the serial port

[Notes]

[Default]

[Reference]

[Example] If you transmit: \$1B \$73 \$41 the last character, A (\$41), will not be printed but

immediately transmitted on the serial line.

# [Name] Prints in black [Format] ASCII ESC x Hex 1B 78 Decimal 27 120 [Description] After receiving this command, the printer prepare itself to print in black.

[Notes]

[Default] n = 0

[Reference] [Example]

#### \$1B \$7B n

[Name]	Turn upside-down printing mode on/off				
[Format]	ASCII	ESC	{	n	
	Hex	1B	7B	n	
	Decimal	27	123	n	
[Dence]	0 < 5 < 055				

[Range]

 $0 \le n \le 255$ 

[Description]

Turns upside-down printing mode on or off.

- When the LSB of *n* is 0, the upside-down printing mode is off.
  When the LSB of *n* is 1, the upside-down printing mode is on.
- [Notes] Only the LSB of *n* is effective.
  - This command is valid only if entered at the beginning of a line.
  - In upside-down printing mode, the printer rotates the line to be printed 180° and then

prints it. n = 0

[Default]

[Reference]

[Example]

Upside-down printing Off

ABCDEFG 0123456



Upside-down printing O

ABCDEFG 0123456

Printing direction

#### \$1B \$F0

[Name]	Transmits the real time clock				
[Format]	ASCII	ESC	{}		
	Hex	1B	F0		
	Decimal	27	240		
[Description]	Using this co	ommand, to re	ead the pri		

[Description]

Using this command, to read the printer calendar clock (real time clock).

[Notes] • Transmit the time and date in 12 ASCII characters format :

#### **HHmmSSDDMMYY**

where:

HH -> hour
mm-> minutes
SS -> seconds
DD -> day
MM-> month

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YY -> year

• This command is present only in the printer version with display (TG558-D) and RTCK option.

[Default] [Reference] [Example]

[Name]

#### \$1B \$F1 n0...n9

**ASCII ESC** [Format] {} n0... n9 F1 Hex 1B n0... n9 Decimal 27 241 n0... n9 [Description] Using this command, to set the printer calendar clock (real time clock). • Transmit the time and date in 10 ASCII characters format : [Notes]

**HHmmDDMMYY** 

Sets the real time clock

where:

HH -> hour
mm-> minutes
DD -> day
MM-> month
YY -> year

• This command is present only in the printer version with display (TG558-D) and RTCK option.

[Default]
[Reference]
[Example]

#### \$1B \$FA n xH xL yH yL

[Name]	Print logo.										
[Format]	ASCII	ESC	{}	n	хH	хL	yН	yL			
	Hex	1B	FA	n	хH	хL	yН	yL			
	Decimal	27	250	n	хH	хL	yН	yL			
[Range]	n = 1, 49										
	$0 \le xH, xL, yH, yL \le 255$										
[Description]	otion] Prints graphic logo stored into flash bank; n selects the graphic source as follows:										
	$xL + xH \times 256$ specifies the starting dotline (1 ÷ Nrow) where										
	<i>Nrow</i> = 341	Nrow = 341 for 58mm model									
	Nrow = 512 for 35mm model										
	$yL + yH \times 256$ specifies the number of lines to print.										
[Notes]	• If $(xL + (xH \times 256)) > Nrow$ the printer does not execute the command where										
	Nrow = 341 for 58mm model										
	Nrow = 512 for 35mm model  • If $(xL + (xH \times 256) + yL + (yH \times 256))$ Nrow the printer prints only Nrow - $xL + (xH \times 256) + 1$ dotline where  Nrow = 341 for 58mm model										
	<i>Nrow</i> = 512	2 for 35r	mm mode	el							
	The logo dimension is:										

**CUSTOM** 

384 x 341

256 x 512 for 35mm model

[Default] [Reference]

[Example] To print from ram bank dotline 10 to dotline 64, send: \$1B \$FA \$00 \$00 \$0A \$00 \$40

## \$1D \$21 n

Select character size								
ASCII	GS	!	n					
Hex	1D	21	n					
Decimal	29	33	n					
	ASCII Hex	ASCII GS Hex 1D	ASCII GS ! Hex 1D 21					

[Range]  $0 \le n \le 255$ 

[Description] Selects character height and width, as follows:

- Bits 0 to 3 low Nibble: to select character height (see table 2).
- Bits 4 to 7 Higth Nibble: to select character width (see table 1).

0bit	1bit	2bit	3bit	4bit	5bit	6bit	7bit
	hei	ght			wie	dth	

Table 1 Select Character Width (hight Nibble)

Hex	Width					
0x	1 (normal width = 1x)					
1x	2 (width = 2x)					
2x	3 (width = 3x)					
3x-Fx	1 (normal width = 1x)					

Table 2 Select character height (Low Nibble)

Hex	Height
х0	1 (normal height = 1x))
x1	2 (height = 2x)
x2	3 (height = 3x)
x3-xF	1 (normal height = 1x)

[Notes]

- This command is effective for all characters (except HRI characters).
- If *n* falls outside the defined range, this command is ignored.
- Characters enlarged to different heights on the same line are aligned at the baseline or topline.

[Default] n = 0

[Reference] \$00, \$01, \$02, \$03, \$04

[Example]

## \$1D \$24 n

[Example]

T T											
[Name]	Set absolute shift into a graphic line.										
[Format]	ASCII	GS	\$	n							
	Hex	1D	24	n							
	Decimal	29	36	n							
[Range]	0≤ n ≤ 47 for 58mm model										
	$0 \le n \le 34$ for	0≤ n ≤ 34 for 35mm model									
[Description]	•			o a graphic line based on the current value of n that om left margin.							
[Notes]	<ul> <li>Settings or</li> </ul>	utside the sp	ecified pri	ntable area are ignored.							
[Default]											
[Reference]											

#### \$1D \$44 s1 s2 s3 s4

[Name] Visualization on display a string of 4 characters.
[Format] ASCII GS D s1 s2 s3 s4

Hex 1D 44 s1 s2 s3 s4
Decimal 29 68 s1 s2 s3 s4

[Range]  $48 \le s1, s2, s3, s4 \le 57$ 

 $65 \le s1$ , s2, s3,  $s4 \le 90$ 

[Description] Visualizes a string of 4 characters on printer display.

[Notes] • This command is present only in the printer version with display (TG558-D).

[Default] [Reference]

[Example] To visualize the string "CIAO" on display send :

\$1D \$44 \$43 \$49 \$41 \$4F

#### \$1D \$45 d1...d8

[Name]

Display management in graphic mode.

[Format] ASCII GS E d1... d8

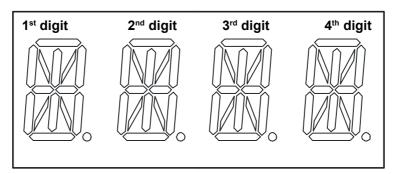
Hex 1D 45 d1... d8 Decimal 29 69 d1... d8

[Range]  $0 \le d1 \le 255$ 

 $0 \le d8 \le 255$ 

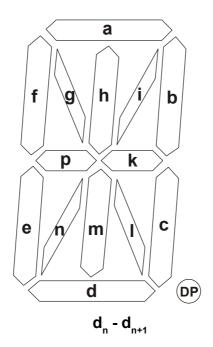
[Description] It's possible to customize the display visualization mode. Send 8 bytes (d1...d8) that

identify the 4 digit present on display in the following mode:



1 <sup>st</sup> (	1 <sup>st</sup> digit 2 <sup>nd</sup> digit				ligit	4 <sup>th</sup> digit		
d1	d2	d3	d4	d5	d6	d7	d8	

[Notes] • In the following figure are represented the display digits :



• Each pair of bytes identify a digit, and must be as follows :

7	7 dn				0	7 dn +1					0				
N.U.	DP	k	р	n	m	ı	i	h	g	f	е	d	С	b	а

• This command is present only in the printer version with display (TG558-D).

[Default]

[Reference]

[Example]

To visualize the character "+" on all 4 display digits send :

\$1D \$45 \$34 \$80 \$34 \$80 \$34 \$80 \$34 \$80

#### \$1D \$46 n

[Name] Enabling graphic display effects.

[Format] ASCII GS F n

Hex 1D 46 n Decimal 29 70 n

[Range]  $1 \le n \le 4, 49 \le d8 \le 52$ 

[Description] Enables the graphic display effects. There are a4 effects already stored into the printer

that can be reloaded in base of the n value.

[Notes] • This command is present only in the printer version with display (TG558-D).

[Default]

[Reference]

[Example]

\$1D \$49 n

[Name] Transmit printer ID

[Format] ASCII GS I n

 Hex
 1D
 49
 n

 Decimal
 29
 73
 n

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[Range]

 $1 \le n \le 3, 49 \le n \le 51$ 

[Description]

Transmits the printer ID specified by *n* follows:

n	Printer ID	Specification
1, 49	Printer model ID	\$68 (58mm model) \$69 (35mm model)
2, 50	Type ID	See table below
3, 51	ROM version ID	Depends on ROM version (4 character)

# n = 2, Type ID

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	2-byte character codes not supported
1	Off	00	0	Autocutter not supplied
	On	02	2	Autocutter supplied
2	Off	00	0	Thermal paper w/o label
	On	04	4	Thermal paper w/label
3	-	-	-	RESERVED
4	-	-	-	RESERVED
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	-	-	-	RESERVED

[Notes]

• This command is executed when the data is processed in the data buffer. Therefore, there could be a time lag between command reception and data transmission, depending on data buffer status.

[Default] [Reference] [Example]

## \$1D \$4C n m t d1...dk

[Name]	Receive ds	play effe	ct from	serial p	ort						
[Format]	ASCII	GS	L	n	m	t	d1	dk			
	Hex	1D	4C	n	m	t	d1	dk			
	Decimal	29	76	n	m	t	d1	dk			
[Range]	$1 \le n \le 4,49$	9 ≤ n ≤ 52									
	0 ≤ m ≤ 63										
	$0 \le d1 \le 255$	$0 \le d1 \le 255, 0 \le dk \le 255$									
[Description]	Receives di	Receives display effect from serial port.									
	• The <i>n</i> para	meter ind	icates th	e effect	display n	umber	to apply	/ (see \$1D \$46 command).			
	•	• The <i>m</i> parameter indicates the frame number. if the m value exceeds the maximum value allowed then was automatically limited to 63.									
	<ul> <li>The t para value is cald</li> </ul>				/ interval	betwe	en one f	rame and another (the			
[Notes]	<ul> <li>The frame</li> </ul>	structure	is the sa	me as s	pecified	in the c	omman	d \$1D \$45.			
	• The d1 d	k hytee th	at was s	ent to d	ofine the	dienla	v effect	are calculated as follows:			

- The d1...dk bytes, that was sent to define the display effect, are calculated as follows:
   k = m x 8 (where m is the frame number)
- After receiving this command a printer reset was executed.
- This command is present only in the printer version with display (TG558-D).



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TG558

[Default]

[Reference]

\$1D \$45

[Example]

0.4		¢ E 7		44	dn
20.1	I D	201	n	O1	an

Prints n byte of a 203 dpi graphic line [Name]

GS [Format] **ASCII** W d1... dn

> 1D 57 d1... Hex dn n 29 d1... Decimal 87 n dn

 $1 \le n \le 48$ for 58mm model [Range]

> $1 \le n \le 34$ for 35mm model

 $0 \le d1 \dots dn \le 255$ 

Print n byte of a 203 dpi graphic line where: [Description]

n specifies the number of byte to print;

• d1...dn specify the bytes to print.

• If the bit image data input exceeds the number of dots to be printed on a line, the [Notes]

excess data are processed as printable characters.

d indicates the bit image data. Set a corresponding bit to 1 to print a dot, or to 0 to not

print the dot.

• This command is not affected by the emphasized, double-strike, underline (etc.) print

modes and the upside-down mode.

[Default]

[Reference]

[Example] For printing 12 bytes the command sequence is:

\$1D \$57 \$0C \$FF \$00 \$FF \$00 \$FF \$00 \$FF \$00 \$FF \$00

#### \$1D \$59 n

[Name] Sets height in printing.

**ASCII** GS Υ [Format] n

> Hex 1D 59 n 29 89 Decimal n

[Description] Sets height during printing based on following values of n:

When you print a dot line if

n=0 height is set to one

 $n \neq 0$  (default value) height is set to two

[Notes] When  $n \neq 0$  (default value) each dotline is twice replicated

[Default]  $n \neq 0$ 

[Reference]

[Example]

#### \$1D \$5A n

Receive n bytes from serial port [Name]

[Format] **ASCII** GS Ζ n

1D 5A Hex n Decimal 90 n

[Description] Receives n bytes from serial port and prints them in graphic mode

[Notes] Max value of n is  $n \le 48$  for 58mm model

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 $n \le 34$  for 35mm model

[Default]
[Reference]
[Example]

#### \$1D \$62 m n

[Name] Management of barcode printing.

Decimal 29 124 m n

[Range] ① m = 'p', 'P'  $1 \le n \le 3, 49 \le n \le 51$ 

② m = 't', 'T'  $48 \le n \le 56$ 

③ m = 'c', 'C' n = 'z', 'Z', 'i', 'l', 'd', 'D', 'r', 'R'

[Description]

 $\, \odot \,$  This command prints a EAN13 barcode already formatted ; n specifies the formattation type as follows :

n Barcode format						
1, 49	DDMMYYHHmmSS					
2, 50	DDMMY <i>n</i> HHmmSS					
3, 51	DDMMYHHmm <i>nnn</i>					

where:

**DD** -> day **MM** -> month **YY** -> year **HH** ->hour

**mm** -> minutes **SS** -> seconds n -> terminal number(0-9)

nnn -> progressive ticket number

command or printer shut-down.

- ② This command sets the terminal number that will be printed in the barcode if it was selected the DDMMY*n*HHmmSS format.
- The terminal number value must be included between 0 and 9 (n).

After receiving this command the printer send a byte to host in the following format:

1° byte: ACK (\$06) if the setting value is included in the interval NAK (\$15) if the setting value is not included in the interval

- The terminal number is stored into EEprom so this value still remains also after a reset
- ③ This command is relative to the counter defined as progressive of ticket printed; n specifies the operation executed on counter as indicated in the following table:

n	Function
'z', 'Z'	Resets the progressive ticket counter
'i', 'l'	Increases the progressive ticket counter
'd', 'D'	Decreases the progressive ticket counter
'r', 'R'	Reads the progressive ticket counter

• The counter value is stored into RAM so when the printer resets or shut-down the counter is reset .

[Notes]
[Default]
[Reference]
[Example]

#### (1) \$1D \$64 \$30, (2) \$1D \$64 \$31 n d1...dk

[Name]	Enable / Disable scrolling text						
[Format]	①	ASCII	GS	d	0		
		Hex	1D	64	30		
		Decimal 29	100	0			
	2	ASCII	GS	d	1	n	d1dk
		Hex	1D	64	31	n	d1dk
		Decimal 29	100	1	n	d1	.dk

[Range]

- ②  $0 \le n \le 63$ ,  $0 \le d1 \le 255$ ,  $0 \le dk \le 255$
- - ① This command visualizes on display a string , that was sent through serial port as scrolling text;

[Notes]

- ② The *n* parameter indicates the length of a string. If the length exceeds the value of 63 characters then was automatically limited to 63.
- If the string containes a NULL character (\$00) the next characters recpetion are aborted.
- This command is present only in the printer version with display (TG558-D).

[Default] [Reference] [Example]

#### \$1D \$6F n

[Name]

Management of output lines

[Format] ASCII GS o n
Hex 1D 6F n

Decimal 27 111 n

[Description] This command sets the output lines as follows :

bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
AUXOUT					INI	ЗІТ	

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Out Inibit
	On	01	1	
1	-	-	-	RESERVED
2	-	-	-	RESERVED
3	-	-	-	RESERVED
4	Off	00	0	Out Auxout
	On	08	8	
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	-	-	-	RESERVED

[Notes]

[Default]

[Reference]

[Example]

**CUSTOM** 

• This command is present only in the printer version with display (TG558-D).

## \$1D \$72 n

[Name] Transmit status

[Format] ASCII GS r n Hex 1D 72 n

Hex 1D 72 n Decimal 29 114 n

[Range] n = 1, 49

[Description] Transmits the status specified by *n* as follows:

n Function

1, 49 Transmits paper sensor status (as for **\$1D \$76**).

Paper sensor status (n = 1, 49)

Bit	Off/On	Hex	Decimal	Function
0,1	-	-	-	RESERVED
2,3	Off	00	0	Paper-end sensor:
				Paper present
	On	(0C)	(12)	Paper-end sensor:
				Paper not present
4	Off	00	0	Not used. Fixed to Off.
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	-	_	_	RESERVED

[Notes]

• This command is executed when the data is processed in the data buffer. Therefore, there may be a time lag between receiving the command and transmitting the status, depending on data buffer status.

[Default]

[Reference] \$10 \$04, \$1B \$76

[Example]

<b>510 5</b>	ᆫ	В
--------------	---	---

AID AFD									
[Name]	Re	ceived, save, exec	ute mel	ody					
[Format]	Ф	ASCII	GS	{}	N	k			
		Hex	1D	EB	4E	k			
		Decimal	29	235	78	k			
	2	ASCII	GS	{}	W	k	mh	ml	n1t1nmtm
		Hex	1D	EB	77	k	mh	ml	n1t1nmtm
		Decimal	29	235	119	k	mh	ml	n1t1nmtm
[Range]	0	$1 \le k \le 4, 49 \le k \le 3$	52						
	2	② $1 \le k \le 4, 49 \le k \le 52$							
		$0 \leq mH \leq 255,  0 \leq$	mL ≤ 25	5					
[Description]	<ul> <li>This command is used for receiving and saving a melody.</li> </ul>								
	The k parameter selects the melody to execute.								
	This command save a melody into flash.								
		• k parameter selec	ts the m	elody to	receive.				
		· mh and mL are th	e numb	er of note	es to rec	eive (r	nH x 2	56 + m	nL).
		• n indicates the no				•			•
		• t indicates the dur expressed in multip	ation of	playing r		•	tly dur	ation o	of any note will be

In the following table are listed the usable notes and theirs hexedecimal value to send for playing note.

#### **NOTES TABLE**

Note	Value (Hex)	Description	
NO_SOUND	\$21	-	
SOUND_ON	\$20	-	
RE_D_5			
MI_5	\$31	MI	
FA_5	\$32	FA	
FA_D_5	\$33	FA#	
SOL_5	\$34	SOL	
SOL_D_5	\$35	SOL#	
LA_5	\$36	LA	
LA_D_5	\$37	LA#	
SI_5	\$38	SI	
DO_6	\$39	DO 6 Ottava	
DO_D_6	\$3A	DO#	
RE_6	\$29	RE	
RE_D_6	\$3B	RE #	
MI_6	\$3C	MI	
FA_6	\$3D	FA	
FA_D_6	\$0E	FA#	
SOL_6	\$3E	SOL	
SOL_D_6	\$2C	SOL#	
LA_6	\$3F	LA	
LA_D_6	\$04	LA #	
SI_6	\$05	SI	
DO_7	\$25	DO 7 Ottava	
DO_D_7	\$2F	DO#	
RE_7	\$06	RE	
RE_D_7	\$07	RE #	

## [Notes]

- ② The NO\_SOUND note disable the tones generator must be used to end a melody.
  - The SOUND\_ON note enable the tones generator but no produce any music. This note must be used also when executes a pause.
  - Every melody always must be start with the SOUND\_ON note.
  - This command is present only in the printer version with display (TG558-D).

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[Default] [Reference] [Example]



## **4.1 TECHNICAL SPECIFICATIONS**

Table 4.1 gives the main technical specifications for the 204 dpi printer model.

(Tab.4.1)

Model		58 mm		3:	5 mm		
Columns	24	40	42	17	28		
Print method		Thermal					
Resolution			203 DPI (8	3 dot/mm)			
Paper specifications							
Type of paper		Heat-se	Therma	al rolls on outside of	roll		
Recommended types of paper		from 55 g/m² to 65 g/m² (KANZAN)					
Width	57	57.5 mm ± 1 mm 35mm ± 0.5 mm					
Internal roll core diameter			13n	nm			
External roll diameter	n	nax Ø80 mm	n (with exte	rnal roll holder s	support)		
Core type		Cardboard or plastic					
Sensors	Head temperature, paper end, anti-paper-jam Optional : external near paper end, ticket presence on output			d,			
Printing mode			Straight,	Reverse			
Printing format	He	Height/Width from 1 to 2, bold, reverse, underlined.					
Character fonts		ASCII standard, International					
Available interfaces	RS232/TTL						
Baud rate		Fi	rom 600 to	38400 bps			
Receive buffer			750 b	ytes			
Flash memory			60 Kb	ytes			
Graphics memory	1 logo	of 384 x 34	1 dots	1 logo of 2	256 x 512 dots		
Printing Driver		Window	s™ 95, 98,	ME, NT4, 2K, 2	XP		
Power supply			12 Vdc	± 10%			
Current Consumption	-						
Medium consumption		2 A					
Stand by consumption	0.1 A						
Printer Weight (1)	490 gr.						
Environmental conditions							
Operating temperature			0°C ÷	50°C			
Relative humidity		10%	÷ 85% w/c	condensation			
Storage temperature / Humidity		-20 °(	C ÷ +70 °C	/ 10% ÷ 90%			



**Notes:**(1) Referred without paper roll and model with plastic front panel.

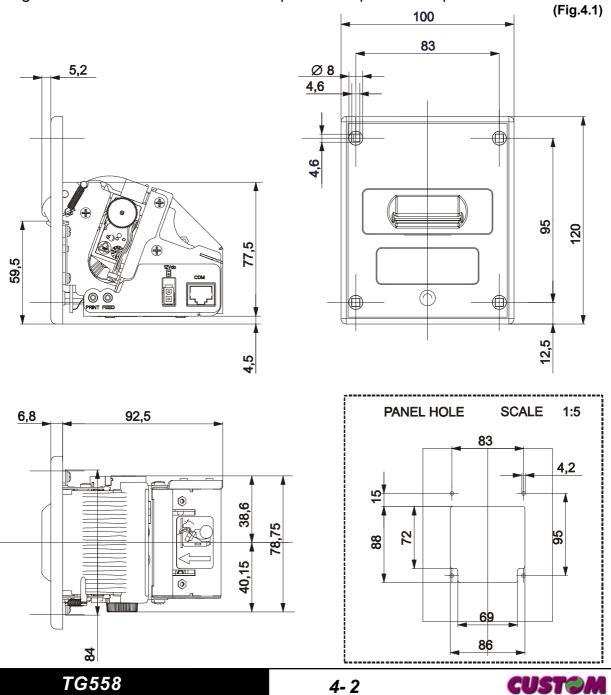


OPTIONS	- Adjustable roll holder support with sensor				
Columns	24 (mod. 58mm) 40 (mod. 58mm) 28 (mod. 38mm)				
Matrix of character 16 x 24 8 x 24					
Printing speed					
Lines / sec	es / sec 16,25 16				
Chars / sec	390	650			
Characters (W x H)					
Normal	2 x 3 1 x 3				

## **4.2 DIMENSIONS**

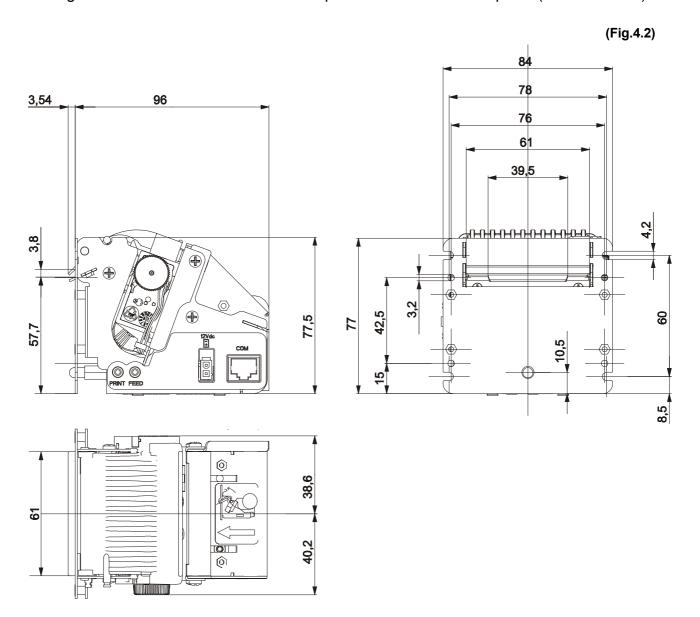
# 4.2.1 Model with plastic front panel

The figure 4.1 shows the dimensions of the printer with plastic front panel.



# 4.2.2 Model with metallic front panel

The figure 4.2 shows the dimensions of the printer with metallic front panel (35mm version).

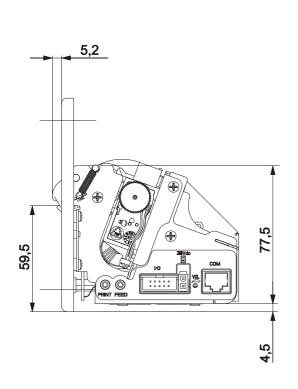


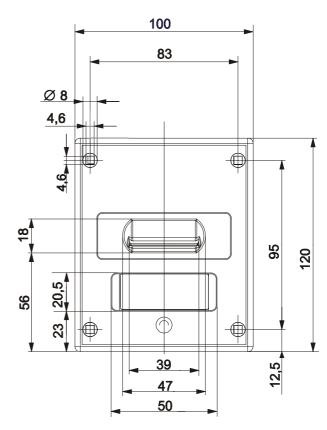
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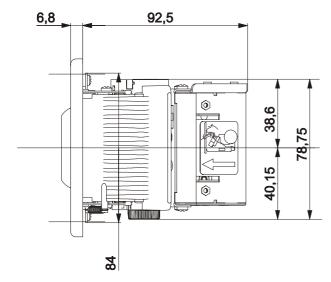
# 4.2.3 Model with Display

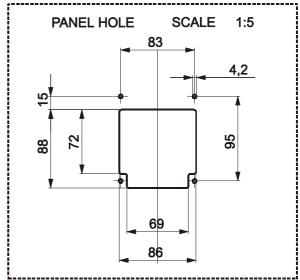
The figure 4.3 shows the dimensions of the printer with display (35mm version).

(Fig.4.3)

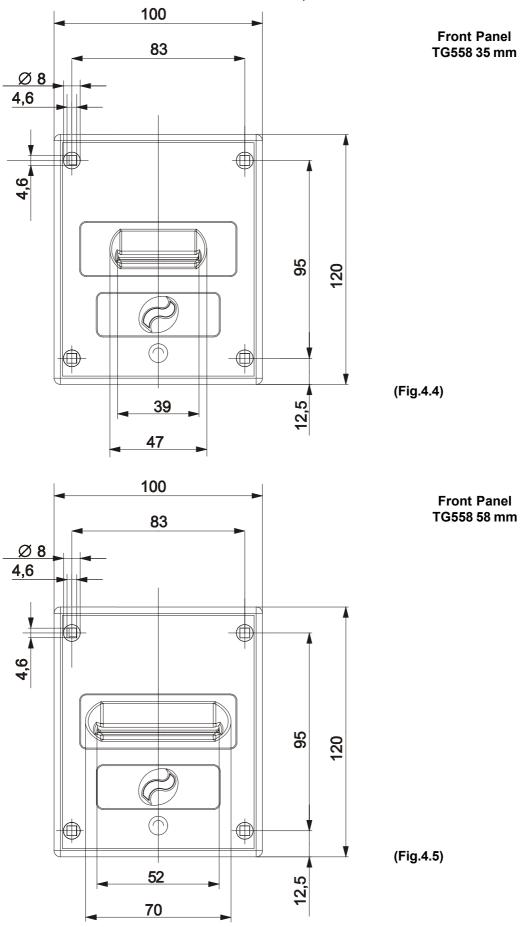








The figures 4.4 and 4.5 show the dimensions of TG558 front panel .



#### **5.1 CHARACTER SETS**

The printer has 2 fonts each width 224 characters (font 1 and font 2). Shown below in figure 5.1 is an example.

24 COLUMNS (font 16 x24)

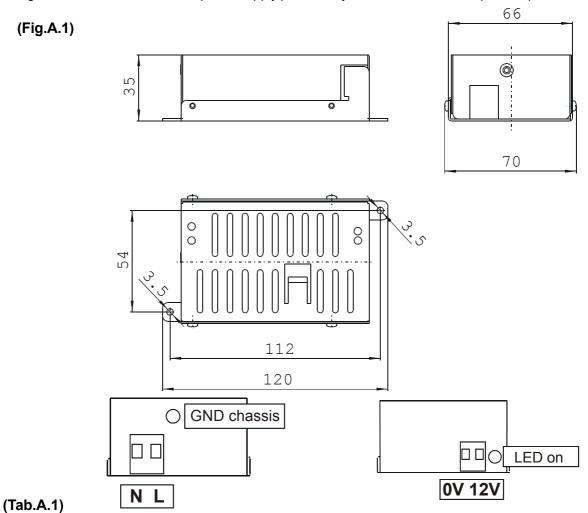
```
123456789ABCDEF
     0@PΦPÇEa® LHαΞ
    !1AQaquai →=B±
1
    "2BRbréftó TTΓ≥
    #3CScsāôùl ⊦╙π≤
    $4DTdtäöni-⊨Σſ
    25EUeuao Na + Fol
    &6FVfvāûº4| ⊨mµ÷
    7GWgwçü⊒π IH+τ≈
    (8HXhxēÿ¿₹ ¥₽°
    )9IYiyëö-4 H 0.
    *:JZjzèU¬‖┺¬Ωλ
B +; K[k°ï¢½¬π¶δ√
    , <L\1񌜬4 | - 0 n
   -=M]mµi§i"= ØZ
    .>N^nΩÄR≪╛╬∎∈€
E
    /?O_o≠Af»¬ +=O↑
```

(Fig.5.1)

#### A.1 ACCESSORIES

## A.1.1 Power Supply

The figure below illustrates the 12V power supply provided by Custom to be used for printer operation.



Input specifications		Output specification	ons	
Input voltage	100 Vac to 240 Vac	Output voltage		12 V
Input frequency	50 Hz to 60 Hz	Output current	Maximum	4 A
			Peak	6 A
			Short Circuit	6 A

## A.1.2 Adjustable paper holder suport

An adjustable paper holder support kit (see fig. A.2 and A.3) is available for the printer to make it possible to use larger-width rolls of paper (80mm max.). (Tab.A.2)

PCXSP-TG558-35	Paper roll holder kit for 35mm version with QFC sensor
PCXSP-TG558-58	Paper roll holder kit for 58mm version with QFC sensor

The kit is provided already installed ad shown in figures A.2 and A.3.



# Paper roll holder Kit for 58mm version: - Paper holder support (1) assembled at paper roll pin (2); - Near paper end sensor board (3); - Two M3x6 fixing screws (4); - Two control discs (5).

## Paper roll holder Kit for 35mm version:

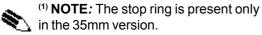
- Paper holder support (1) assembled at paper roll pin (2);

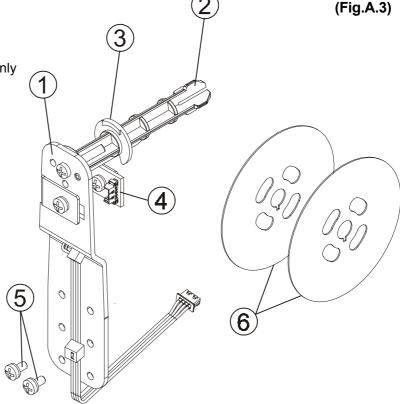
- Stop ring (1) for paper width adjustement (3);

- Near paper end sensor board (4);

- Two M3x6 fixing screws (5);

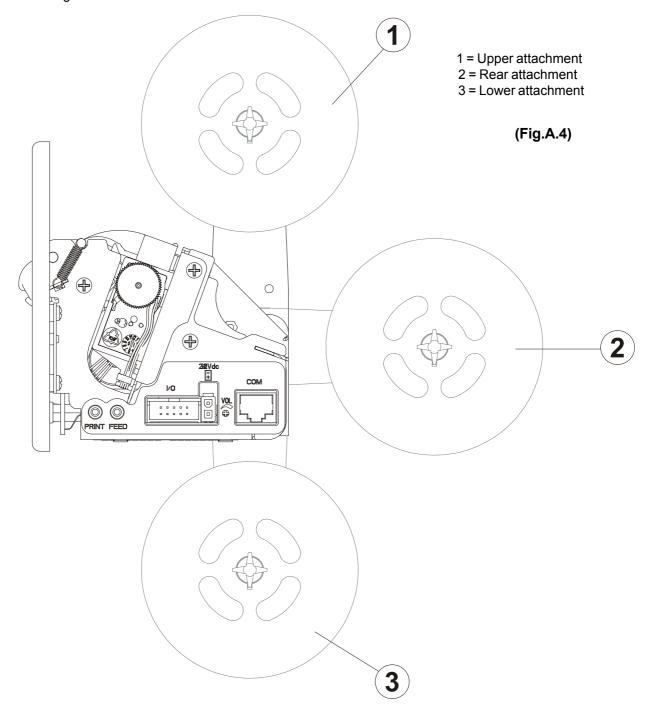
- Two control discs (6).





#### **Assembly instructions**

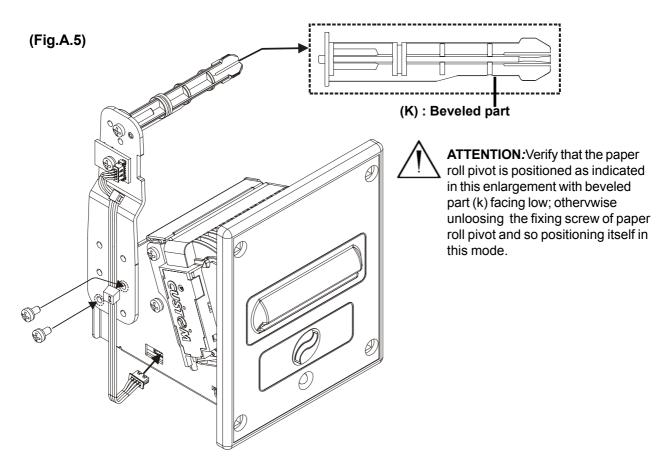
The position of the roll holder support is not fixed and its rear, lower and upper position may be adjusted as shown in figure A.4.



#### Upper attachement

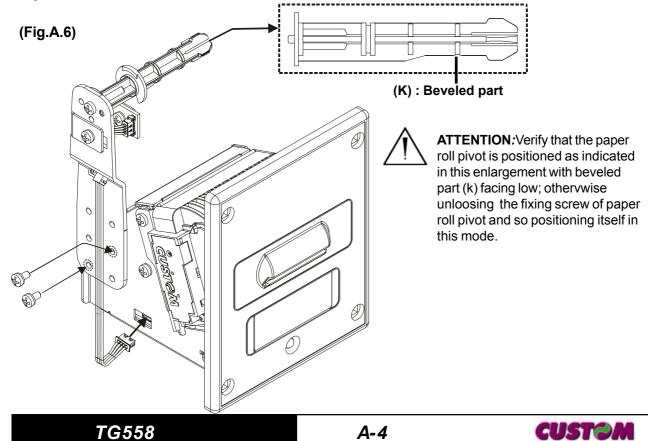
#### 58mm Version

- 1- Attach the support to the printer body using the two M3x6 fixing screws (3) supplied with the kit, as shown in fig. A.5.
- 2 Insert the near paper end sensor connector (1) of the roll holder support into the printer connector as shown in fig. A.5.



#### 35mm Version

- 1- Attach the support to the printer body using the two M3x6 fixing screws (3) supplied with the kit, as shown in fig. A.6.
- 2 Insert the near paper end sensor connector (1) of the roll holder support into the printer connector as shown in fig. A.6.

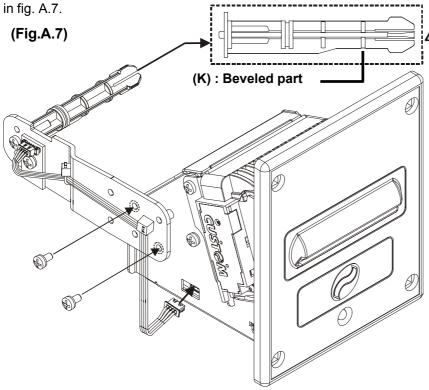


#### Rear attachement

#### 58mm Version

1- Attach the support to the printer body using the two M3x6 fixing screws (3) supplied with the kit, as shown in fig. A.7.

2 - Insert the near paper end sensor connector (1) of the roll holder support into the printer connector as shown

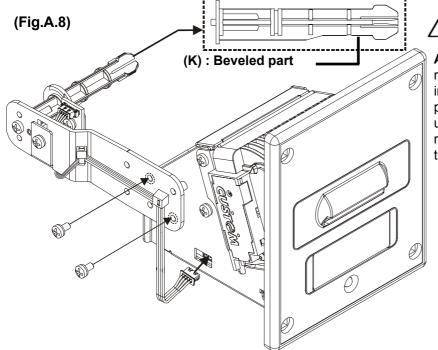


**ATTENTION:** Verify that the paper roll pivot is positioned as indicated in this enlargement with beveled part (k) facing low; othervwise unloosing the fixing screw of paper roll pivot and so positioning itself in this mode.

## 35mm Version

1- Attach the support to the printer body using the two M3x6 fixing screws (3) supplied with the kit, as shown in fig. A.8.

2 - Insert the near paper end sensor connector (1) of the roll holder support into the printer connector as shown in fig. A.8.



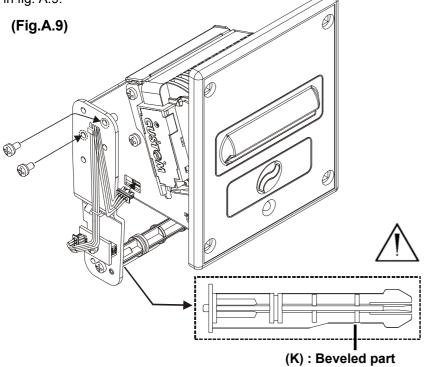
**ATTENTION:** Verify that the paper roll pivot is positioned as indicated in this enlargement with beveled part (k) facing low; othervwise unloosing the fixing screw of paper roll pivot and so positioning itself in this mode.

#### Lower attachement

#### 58mm Version

1- Attach the support to the printer body using the two M3x6 fixing screws (3) supplied with the kit, as shown in fig. A.9.

2 - Insert the near paper end sensor connector (1) of the roll holder support into the printer connector as shown in fig. A.9.

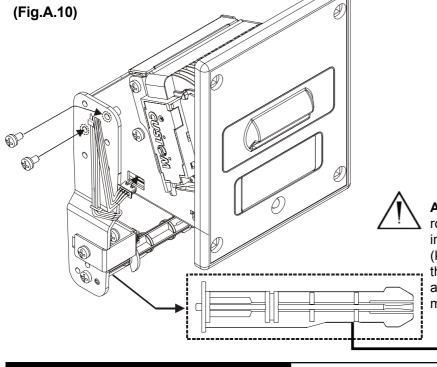


ATTENTION: Verify that the paper roll pivot is positioned as indicated in this enlargement with beveled part (k) facing low; othervwise unloosing the fixing screw of paper roll pivot and so positioning itself in this mode.

#### 35mm Version

1- Attach the support to the printer body using the two M3x6 fixing screws (3) supplied with the kit, as shown in fig. A.10.

2 - Insert the near paper end sensor connector (1) of the roll holder support into the printer connector as shown in fig. A.10.



ATTENTION: Verify that the paper roll pivot is positioned as indicated in this enlargement with beveled part (k) facing low; othervwise unloosing the fixing screw of paper roll pivot and so positioning itself in this mode.

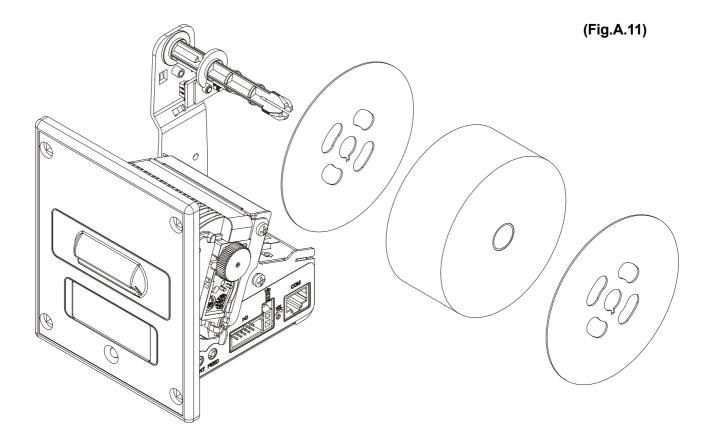
(K): Beveled part

# Using the control discs

Assembly the control discs with the paper roll pivot as shown in the fig. A.11.



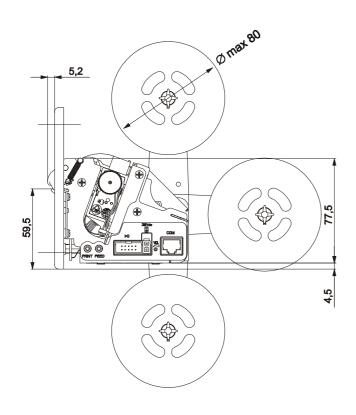
(2) **NOTE:** The model indicated in fig. A.11 is indicative to show the assembly so the following informations are corrects for all models.

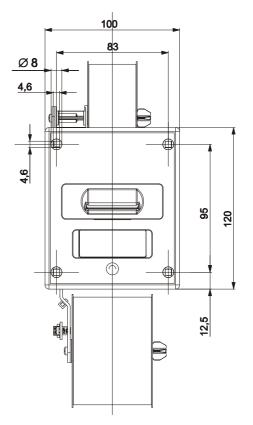


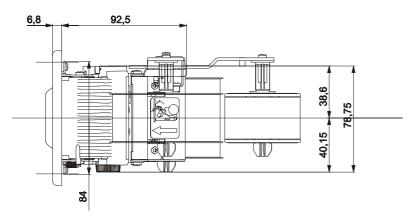
# Printer dimensions with Paper holder support

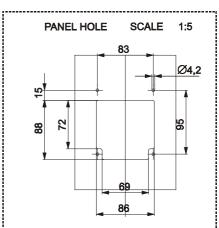
Model with plastic front panel

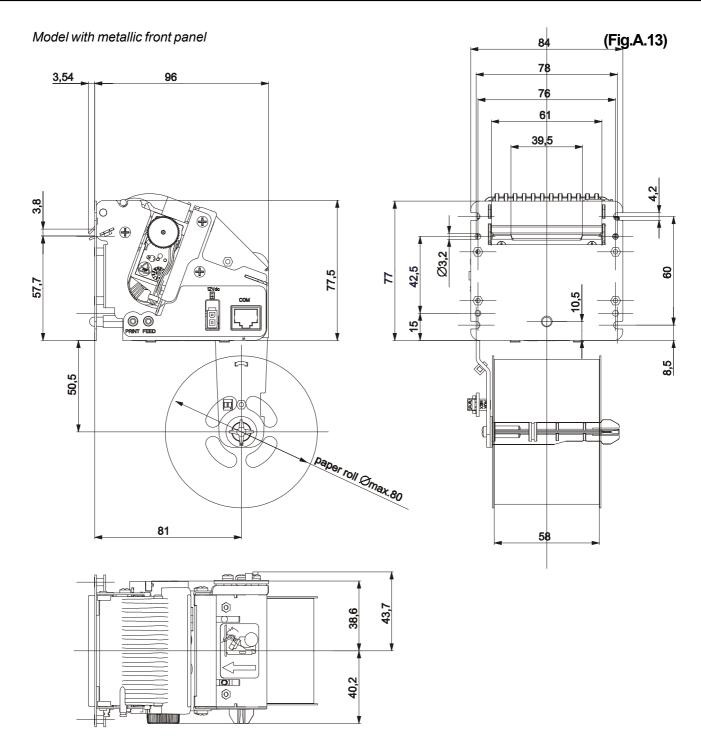
(Fig.A.12)











# **A.2 SPARE PARTS**

RCT35X70-AF

Paper rolls

RCT35X70-AF	35mm Model thermal roll paper fraud preventing	(1ab.A.4)
RCT35X70-RS	35mm model of thermal roll paper back side pre-printed	(Tab.A.5)
RCT58X70-RS	58mm model of thermal roll paper back side pre-printed	
	Customized pre-printed logo for 2000 rolls order minimum	

**CUSTOM** 

(Tab.A.4)