SC8024

Control board
for thermal
printing module.

DATA SHEET

The aim of this manual is to provide instructions to enable the customer to make the best possible use of the product. Any suggestion regarding errors in its contents or possible improvements will be greatly appreciated
The products are continuously checked and improved. For this reason Custom Engineering S.r.l. reserves the right to modify the information contained in this manual without prior notice.

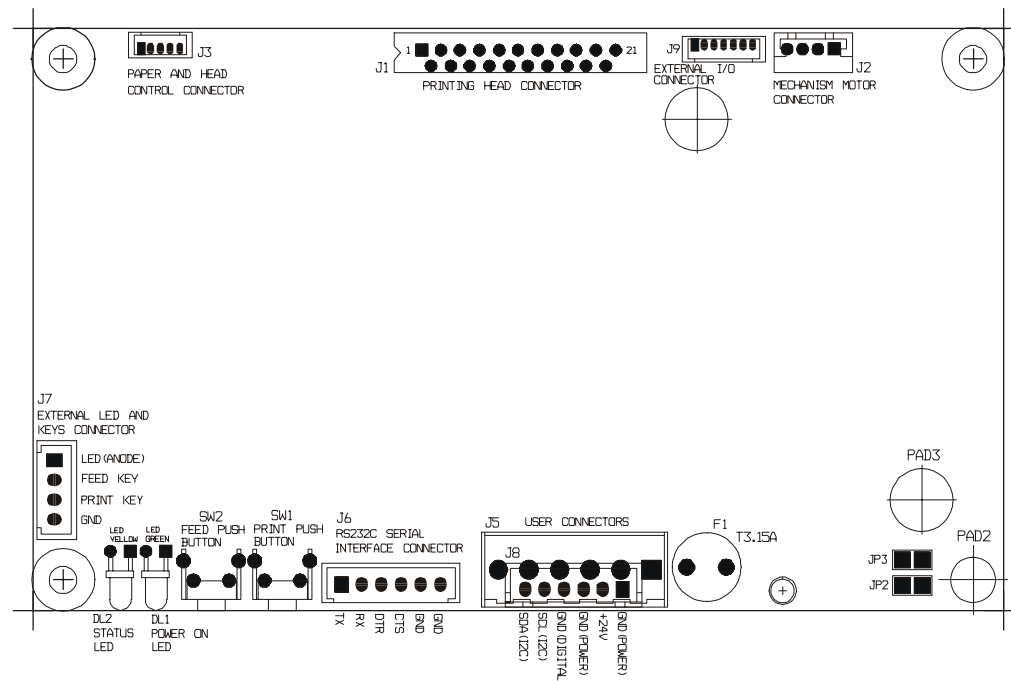DOFE-SC8024   REV. 1.00

DESCRIPTION

The SC8024 is a practical, user-friendly control board. The SC8024 has a wide range of supplementary functions in addition to normal print functions like high speed printing (60mm/sec), entirely or partially programmable fonts, 32 Kbyte reception buffer and other.

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

LAYOUT

CONNECTIONS

J5-Power supply connector

PIN	SIGNAL	NOTES
1	GND	POWER
2	+ 24 V	POWER
3	GND	POWER
4	SIGNAL GND	
5	SCL	I^2C
6	SDA	I^2C

J7- Keys and external led connector

PIN	SIGNAL
1	LED (ANODE)
2	FEED KEY
3	PRINT KEY
4	GND

INTERFACES

J6- RS232 serial interface connector

PIN	SIGNAL	IN/OUT	DESCRIPTION
1	TX	OUT	Data reception. Serial output (from host)
2	RX	IN	Data transmission. Serial input data (to host)
3	DTR	OUT	To select DTR/DSR command, this signal indicates when the printer is busy. SPACE indicates when the printer is ready to receive data, and MARK indicates when the printer is busy.
4	RTS	OUT	Ready to send. Ready to receive data (active on high RS232 level.
5, 6	GND	-	GND

J5- I^{2}C serial interface connector
(it's also the power supply connector)

PIN	SIGNAL	NOTES
1	GND	POWER
2	+ 24 V	POWER
3	GND	POWER
4	SIGNAL GND	
5	SCL	I^{2}C
6	SDA	I^{2}C

TECHNICAL SPECIFICATIONS

Resolution	200 DPI (8 dot/mm)
Paper roll dimensions	Ø60 mm ± 0.5mm
Sensors	Paper out, head open, head temperature.
Print method	Thermal fixed head (8 dot/mm)
Print direction	Normal,180°
Print formats	Normal, double and quadruple height and width, expanded , negative, underlined and script modes.
Character fonts	ASCII standard, EPSON, International.
Standard interfaces	RS232 Serial/ / I2C BUS
Baud rate	From 1200 to 38400 bps / 1- 100KHz
Reception buffer	32 Kbyte
Flash memory	256 Kbyte
Graphic memory	Three 32-Kbyte logos each
Printing speed (dotline/sec)	520 (Speed/Quality=normal)
Power supply	24Vdc
Absorption	
Stand-by	0.1 A
Medium when printing	1.1 A
Peak	1.8 A
Environmental conditions	
Operating temperature	0°C - 45°C
Operating humidity	35% - 85% (no condensing)
Storage temperature / humidity	-20°C - +60°C / 10% - 90%