



CoiNel Technology Solutions LLP[®]

RS232 Thermal Printer User Manual



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Table of Contents

1. Board Features	4
2.0 Thermal printer Enclosure	5
2.1 Outward appearance	5
2.2 Power Supply	6
2.3 Switches	6
2.4 LEDs	7
2.5 Description of UART Signals	7
2.6 Process of Loading the Thermal Printer	8
2.7 Power Supply Table	9



1. BOARD FEATURES:

The RS232 thermal printer has the following features

1. Interface: RS232 (UART) Via RJ11 connector.
2. Baud rate can be changed. (From 1200 to 115200)
3. Images print Support. (As per user configuration through UART only).
4. 2 English Fonts Support

- Fixedsys
- Courier

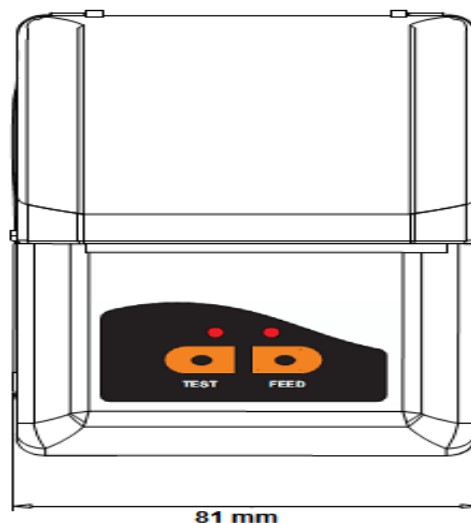
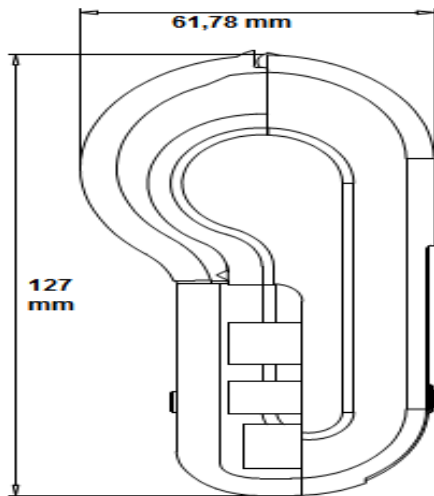
And it supports Regional Languages like Hindi/Kannada/Telugu/Guajarati but as per the customer requirement.

5. Text File (.txt) content Print Support.
6. Bar Code Support Max length of 11 values (Includes alphabets and numbers)
7. Paper feed switch and Test print Switch is given in the onboard.
8. Power: 12V/3A (Product Code) / 7.5V/3A (Product Code) / 5V/3A (Product Code) Powered via adapter or variable power supply.
9. Supported Printer:

- a. 2 inch --- FUJITSU: FTP-628MCL103

10. It has two LEDs.

11. The Board dimensions are as follows





2.0. THERMAL PRINTER ENCLOSURE:

2.1 Outward appearance:

TOPVIEW:



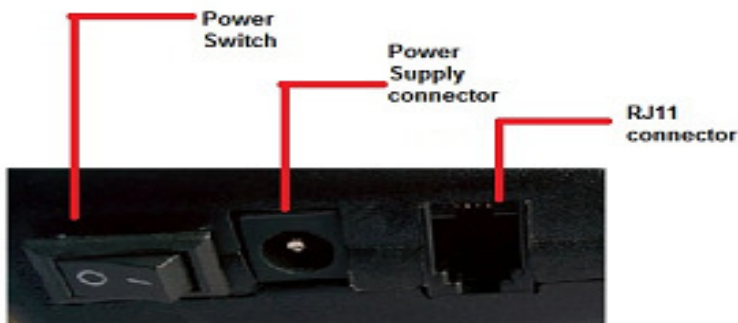
SIDE VIEW:





2.2 POWER SUPPLY:

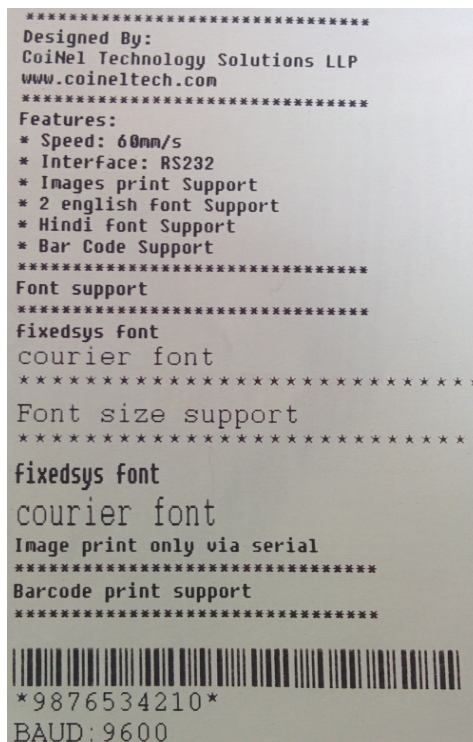
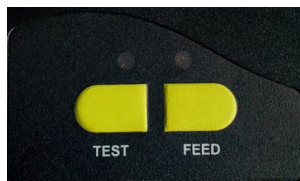
The Power supply to be used as per the Table 2.7 .The power supply connector pin is as shown the in the Enclosure Board. The Power switch (ON/OFF) is also provided with the Enclosure and the RJ11 connector (RJ11 to max232 converter) is used for UART interface. Details are shown in below figure.



2.3 SWITCHES:

TEST PRINT SWITCH (TEST): For test print press the TEST switch.

LINE FEED SWITCH (FEED): If FEED Switch has pressed, then the motor will rotate for some time and nothing will print.





2.4 LEDS:

Enclosure Consists of 2 LEDs.

1. TEST LED (LED1) is for power indication and also for platen detection indication and it will blink continuously when there is no platen present.
2. FEED LED (LED2) will blink continuously while printing and also blink continuously when there is no paper present and it will remains in OFF state while doing nothing.

2.5 Description of UART Signals:

RXD:

1. Serial data input signal. Data signal to be transferred from host to printer.
2. "Space" indicates no data (=), "Mark" indicates that data exists (= 1)
3. The data format is as follows

Start	B0	B1	B2	B3	B4	B5	B6	B7	Stop
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Length of stop bit is 1 bit

Fixed Data length is 8bits fixed

Parity Bits: None

Start bit is "Space" and stop bit is "Mark"

TXD:

- 1) Serial data output signal. Data signal to be transferred from printer to host.
- 2) Other functions are the same as RXD.

CTS: Not Used

RTS: RTS is an active low output which notifies the other device when it can receive data by driving the pin low. The External device has to scan for this pin and transmit data only when the pin is low.

RTS = logic 0, mean that the module is ready to receive data.

Note: It will work without RTS pin also.

GND: Signal Ground.



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2.6 Process of loading the Thermal Printer

1. Remove the platen slowly



2. Replace the paper





3. Load the platen back to its position.



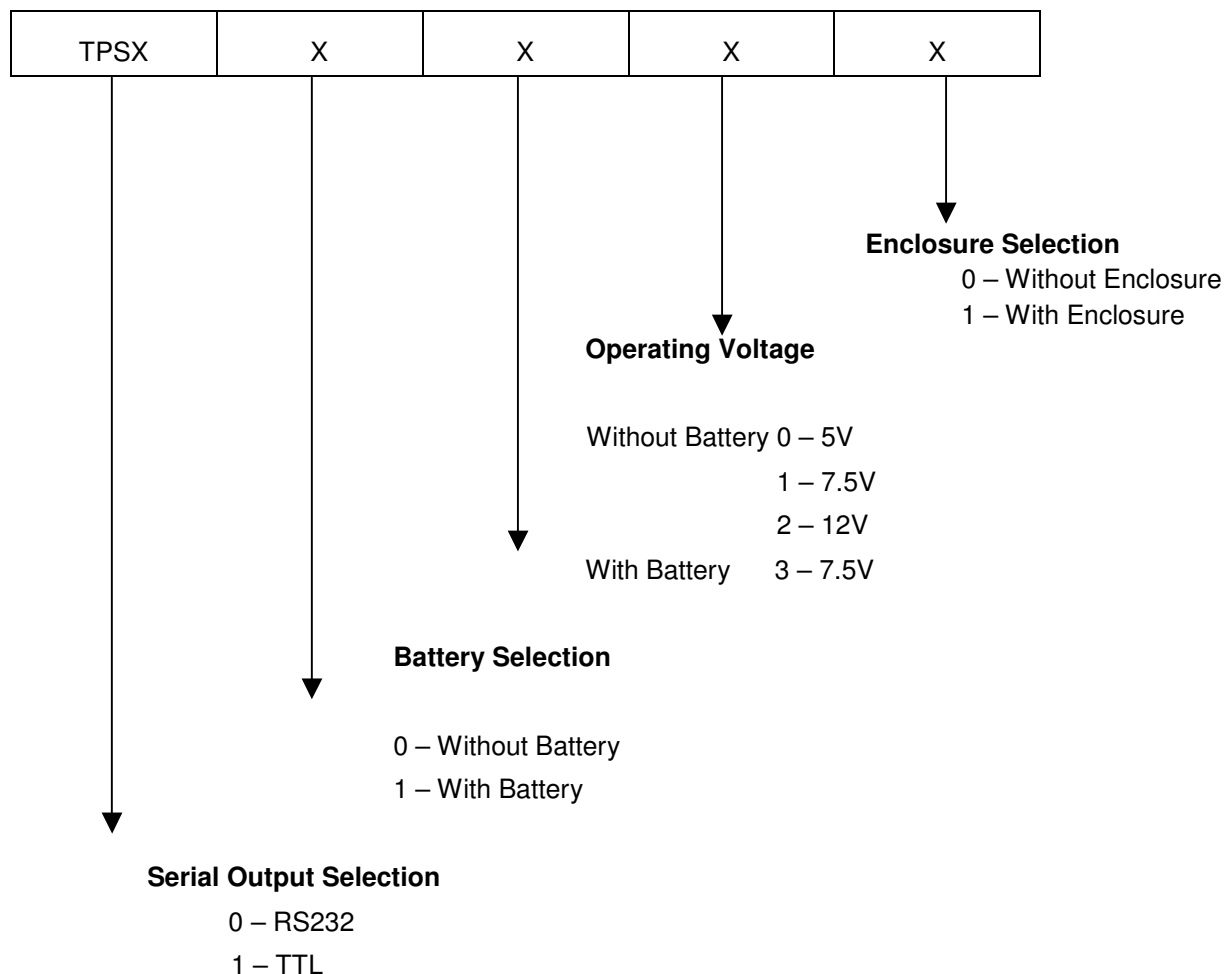
Note: Make sure that the platen is placed properly.

2.7 Power Supply Table:

Product Code	Voltage/Amps	Description
TPS20001	5V/3A	Powered Via Direct adaptor
TPS20011	7.5/3A	Powered Via Direct adaptor
TPS20021	12V/3A	Powered Via Direct adaptor
TPS20131	7.5V/3A	Powered Via Li-ion Battery(7.4V, 1100mAh) (9V/1A adaptor for Battery Charging)



Product Code Description:



Thermal Printer

Selection (TPS)

2 – 2 Inch Thermal Printer

3 – 3 Inch Thermal Printer



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