

Serial Display Unit (SDU)



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Description:

The Serial Display Unit (SDU) receives serial data from the PC or any master and displays the data on the 2*16 LCD display. In this, two command formats are used to display the data on the LCD. These formats specify where the data is to be displayed that is in first row or second row.

Features:

- ❖ Two rows and sixteen characters per row
- ❖ Compact size (94mm(l) × 63mm(b) × 48mm(h))
- ❖ Panel mountable
- ❖ Programmable control to display the message
- ❖ Yellow background and black characters
- ❖ Easy to carry anywhere
- ❖ LCD displays support Alpha numeric characters.

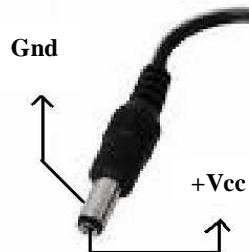
Technical Data:

❖ DC Characteristics

Voltage : 8 to 20 VDC
Current : 500mA

❖ Serial Communication Characteristics

Baud rate : 9600bps
Data bits : 8
Parity : None
Stop bits : 1
Flow control : None



Initial Step:

- ❖ Connect the DB9 connector to the Display unit.
- ❖ Connect power cable to the Display unit. The power cable signal polarity is as mentioned in the above picture.
- ❖ Switch ON the power.

Now LCD will glow, by displaying “**Procyon Tech**” on the first row and after two second “**Ready....**” on the second row.

Now the unit is ready to receive the data through serial port.

Command format:

- ❖ To print the character in the first row of the LCD, start with “<” and type the characters then end with “?” For Example, <**FIRST_ROW?**
- ❖ To print the character in the second row of the LCD, start with “>” and type the characters then end with “?” For Example, >**SECOND_ROW?**
- ❖ If the typed character in the first or second row exceeds 16 characters, the LCD can display only up to 16 character and the remaining characters are truncated.