



# Shrirang Automation and Controls

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## CLEAN ROOM MONITOR WITH LED DISPLAY



### OVERVIEW

The CDU-LED is a Microcontroller based design with 0.5" Red Colour LED Display

It incorporates Three channels for analog inputs 4-20 mA / 0-10VDC with High & Low Alarm and Retransmission for each channel

All parameters can be changed through front key pad and RS485

This unit has RS485 Modbus RTU protocol for connecting it to host controller / SCADA software



### SPECIFICATIONS

<b>Model</b>	CDU-LED
<b>Type</b>	Microcontroller based Temperature, Humidity & Differential pressure control action
<b>Display</b>	4 sets of 4 Digit LED Red color 0.5"
<b>Input Signals</b>	4 to 20mA/0 to 10 VDC Factory set
<b>Scale Range</b>	-999 to +999
<b>Calibration</b>	Humidity : 0.0 to 100.0 % RH Temp: -50.0 to 100.0 deg C Selectable units: Deg F, Deg C DP: 0.0 to 100.0 Pa Selectable units: Pa, mmwc, INWC
<b>Calibration facility</b>	By keyboard
<b>Retransmission</b>	3 X 4 to 20mA/ 0 to 10VDC
<b>Alarm/Set points</b>	Every Channel High & Low (3x2)
<b>Alarm indication</b>	Flashing LED on panel with buzzer
<b>Communication</b>	RS485 on Modbus RTU protocol
<b>RTC</b>	Without GPS
<b>Response time</b>	< 200 mS
<b>Linearity</b>	0.1% of span
<b>Accuracy</b>	0.1% of span
<b>Operating Temp</b>	0 to 50 Deg C
<b>Memory</b>	Non-volatile
<b>Power Supply</b>	90 to 270 VAC, 50/60 Hz. & 24 VDC/ 400mA
<b>Execution</b>	Wall mounting
<b>Enclosure</b>	MS powder coated box with SS front plate
<b>Dimensions</b>	MS Box : 235 X 250 X 40 [W x H x D] SS Plate : 260 X 245 MM
<b>Weight</b>	Approximately 1.5 Kgs

### FEATURES :

- Microcontroller based design
- Continuous monitoring of parameters of three sensors with alarm
- High accuracy and linearity to input signal
- Display for configuration & alarm acknowledgement
- RS485 communication
- 1 year warranty
- Password protected configuration settings
- Low power consumption and heat dissipation
- Factory set retransmission
- Universal power supply
- Rugged, industrial grade steel enclosure
- Without GPS synchronized precision real time clock display
- High noise immunity

### MODEL CHART

Example	CDU-LED	M	C	24	CDU-LED-MC-24
Series	CDU-LED				LED Display
Input Signal		M			4 to 20 mA
		V			0 to 10 VDC
Retransmission			C		4 to 20 mA
			V		0 to 10 VDC
Power Supply				24	24VDC / 400mA
				230	90-270VAC, 50/60 Hz