



# Shrirang Automation and Controls

Plot No. 733, Road No. 85, GIDC - Sachin,

Dist. Surat 394230, Gujarat

Email ID:- info@sanc.in / Phone:- +91 95125 00952

## CLEAN ROOM MONITOR WITH TOUCH SCREEN



### OVERVIEW

The CDU-TFT is a microcontroller based design with graphic 3.5" 16 bit TFT colour touch screen display

It incorporates six channels for analog inputs 4-20 mA / 0-10VDC with High & Low Alarm and Retransmission for each channel (could be used for two rooms)

All channels can be calibrated through touch screen and Rs485

Any of the channels can be switched ON or OFF through software

This unit has RS485 Modbus RTU protocol for connecting it to host

### SPECIFICATIONS

Model	CDU-TFT
Type	Microcontroller based Temperature, Humidity & Differential pressure control action
Display	Graphic 3.5" 16 bit colour TFT touch display
Input Signals	Six, 4 to 20 mA / 0 to 10 VDC
Scale Range	-999 to +999
Calibration	2 X Humidity : 000.0 to 100.0% RH 2 X Temp : -50 to +100 deg C Selectable units: Deg F, Deg C 2 X DP 0.0 to 100.0 Pa Selectable units: Pa, mmwc, INWC
Calibration facility	By keyboard on touch screen panel
Retransmission	6 X 4 to 20 mA / 0 to 10VDC
Alarm/Set points	Every channel High & Low (6 X 2)
Alarm indication	Flashing parameter on screen with buzzer
Communication	Rs485 on Modbus RTU protocol
RTC	Without GPS
Response time	< 200 mS
Linearity	0.1% of span
Accuracy	0.1% of span
Operating Temp	0 to 50 Deg C
Memory	Non-volatile
Power Supply	90 to 270 VAC, 50/60 hz. & 24 VDC/ 400mA
Execution	Wall mounting
Enclosure	MS powder coated box with SS front plate
Dimensions	MS Box : 200 X 200 X 40 [W x H x D] SS Plate : 240 X 220 MM
Weight	Approximately 1.5 Kgs

### FEATURES :

- Microcontroller based design
- Continuous Monitoring of parameters of six sensors with alarm colour indication
- High accuracy and linearity to input signal
- TFT LCD touch display for configuration & alarm acknowledgement
- 5 year warranty
- RS485 communication
- Password protected configuration settings
- low power consumption and heat dissipation selection option for retransmission type
- Universal power supply
- Rugged, industrial grade steel enclosure
- Without GPS synchronized precision real time clock display
- High noise immunity

### MODEL CHART

Example	CDU-TFT	M	24	CDU-TFT-M-24
Series	CDU-TFT			TOUCH SCREEN DISPLAY
Input Signal		M		4 to 20 mA
		V		0 to 10 VDC
Power Supply			24	24VDC / 400mA
			230	90-270VAC, 50/60 Hz

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