

Techtrol 8 Channel Scanner 'T-SCN'

Techtrol

SINCE 1984

Is an advanced and sophisticated micro controller based multipoint monitoring and alarm system. It can be used in conjunction with any transmitter to scan and display any process variable like Level, Temperature, Pressure & Flow in their corresponding units.

Features:

- Accuracy $\pm 0.25\%$ of FSD.
- Two character tank identification.
- Volume calculations for linear as well as non-linear tanks.
- RS 232 or RS 485 serial interface with modbus RTU protocol.
- Eight relay output's independently configurable on alarm or set-reset.
- Password protection.
- Large font, 2 line x 16 character dotmatrix backlit LCD display.

Construction & Operation:

It operates on an input signal of 4-20 mA or 1 to 5 VDC from the transmitter. This analog input is digitized through A to D convertor and then calibrated through its microcontroller, which also controls the output functions of display and relays as configured.

Besides, being configured for individual set points per channel, it can also calculate volume for either linear or non-linear tanks in-situ. Input and output terminals are pluggable type, hence detachable from the scanner without removing field connections, resulting in saving valuable time during calibration of units at the time of servicing. T-SCN comes with password protection for all configurable data and as a special option with RS232 or RS485 serial communication with modbus (RTU) protocol & additional 8 relays.

Specifications:

Display	: 2 Line x 16 character dotmatrix backlit LCD display, 10mm height 8 or 16 Red LED's for alarm status.
Accuracy	: $\pm 0.25\%$ of FSD.
Input	: 4-20mA or 1-5 VDC or T/C type E, J, K or RTD Pt 100, No. of inputs 8.
Display scan rate	: Programmable 1 to 99 seconds.
Calibration	: Zero and Span adjustment through 5 push button keys.
Relays	: 8 relays, one relay per channel, Relay rating : SPDT x 5A, 230VAC Independently programmed for alarms or set-reset.
Interface	: 7- digit security code, 5 push button keys.
Protection	: Optical isolation for input & output, Lightening protection using MOV.
Resolution	: 1 mm.
General	: Power supply : 110 or 230 VAC, 50-60 Hz. Amb. temperature : 0 to 60°C, Amb humidity : 95 % Rh non condensing. Power consumption : 10VA. Supply to transmitter : 24VDC, 30mA (current input version). Manual mode : Any channel with corresponding readings over indefinite time.
Instrument Enclosure type	: a) Panel mounting, Al (Powder coated), Protection : IP-41 Size : 96H x 144W x 200mm D, panel cutout : 92H x 140W b) Wall mounting Glass Polyester. Conduit conn : PG-13.5 Protection : IP-65, Size: 260 x 160 x 90mm height.
Serial communication	: RS232 or RS485 interface with modbus (RTU) protocol, Baud rate programmable.
Special features	: Additional relay unit : upto max 8 / Annunciator facility with hooter, Hooter optg voltage : 24 VDC / 230 VAC, Sound level : 100dB / 1m.

Panel Mounted



Wall Mounted



Model Identification No. T-SCN

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Enclosure

- Al, Panel mtd, IP 41 ————— **P**
- Gl polyester, Wall mtd IP-65 ————— **W**
- Others ————— **0**

Input Type

- 4 to 20 mA ————— **1**
- Thermocouple ————— **2**
- RTD ————— **3**
- 1 to 5 VDC ————— **4**
- * Mixed Gr 1 (T/C & RTD) ————— **5**
- * Mixed Gr 2 (Current & Voltage) ————— **6**
- Others ————— **0**

Relay Output

- 8 x SPDT ————— **1**
- 16 x SPDT ————— **2**
- Others ————— **0**

Power Supply

- 110 VAC ————— **1**
- 230 VAC ————— **2**
- Others ————— **0**

Serial Communication

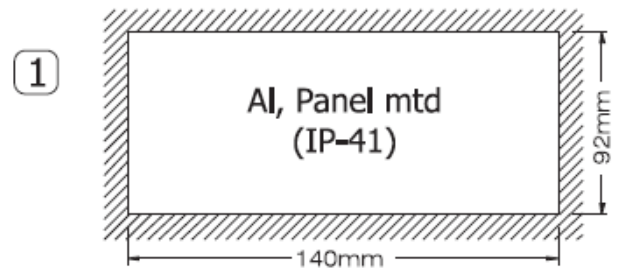
- Without ————— **W**
- RS 232 ————— **1**
- RS 485 ————— **2**

Special Features

- Without ————— **W**
- Annunciator with hooter ————— **1**
- Annunciator without hooter ————— **2**

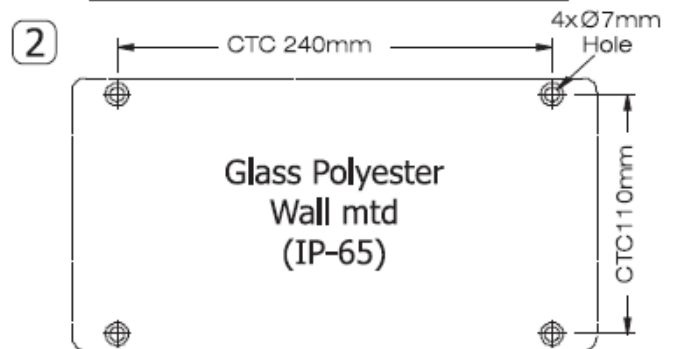
Mounting Arrangements :

Panel Cutout :



Panel cutout for Panel mtd enclosure (IP-41)

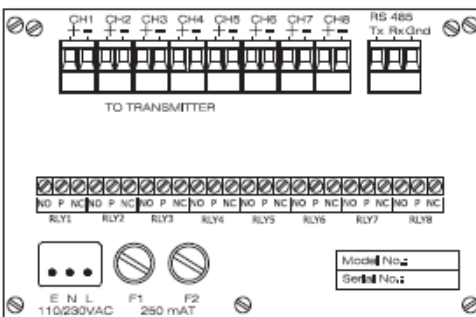
Wall Mounting :



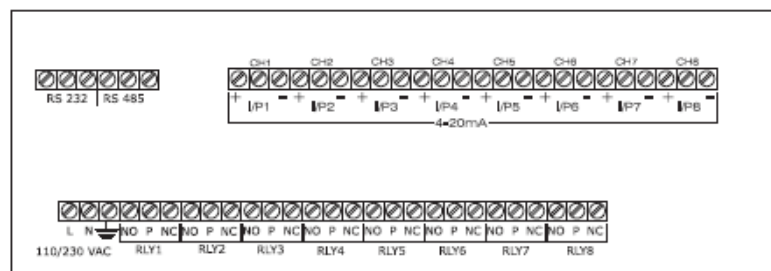
Configuration of drilled holes for Wall mtd enclosure (IP-65)

Termination :

Panel mtd



Wall mtd



*Specify i/p channelwise

Ordering Information : Specify Model No

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AREA REPRESENTATIVE