

Techtrol Universal Indicator Controller T-UIC

It is an advanced micro-controller based monitoring and alarm system. It can be used in conjunction with any 2-wire transmitter for remote display/control variables like Level, Temperature, Pressure & Flow in their corresponding units.

Construction & Operation :

It operates on an input signal of 4-20mA or 1- 5 VDC from the transmitter. This analog input is digitized through A to D converter and then calibrated through its microcontroller, to control the output functions of display and relays. Input and output terminals are pluggable type, hence detachable from 'TUIC' without removing field connections, resulting in saving valuable time during servicing, maintenance & calibration. It has password protection for all configurable data.

Salient Features :

- ☑ Accuracy $\pm 0.25\%$ of FSD.
- ☑ Two character tank identification.
- ☑ Volume calculations for linear & non-linear tanks.
- ☑ RS232 or RS485 serial interface with modbus RTU protocol.
- ☑ Four relay outputs independently configurable on alarms or set-reset.
- ☑ Password protection.
- ☑ 2 line x 16 character dotmatrix backlit LCD display.
- ☑ Re-transmission.
- ☑ Option of Dual channel input (4-20mA).

Specifications :

Display	: 2 line x 16 character dotmatrix backlit LCD display, 4mm height 4 Red LED's for alarm status.
Accuracy	: $\pm 0.25\%$ of FSD.
Input	: 4-20 mA or 1-5 V DC or T/C type E, J, L or RTD Pt 100 No of Input 1 or 2.
Calibration	: Zero and Span adjustment through 5 push button keys.
Relays	: 4 relays, Relay rating : SPDT x 5A, 230VAC Independently programmed for alarms, Set-Reset.
Interface	: 4-digit security code, 5 Push Button Keys.
Protection	: Optical isolation for Input & Output. Lightning protection using MOV.
Resolution	: 1mm.
General	: Power Supply 90-270VAC or 24VDC Amb. Temperature : 0 to 70°C Amb. Humidity : 95% Rh Non Condensing Power Consumption : 7VA Supply to transmitter 24VDC, 30mA (Current i/p version)
Instrument Enclosure Type	: a) ABS Panel Mounting, Protection: IP 41 Size : 96L x 96W x 150mm depth, Panel cutout : 92H x 92W or b) Glass Polyester Wall Mounting, Protection: W proof IP-65 Size : 160L x 160W x 90mm height or c) Al Wall Mounting, Protection : Ex proof Gr IIA & IIB Size : 275L x 185W x 175mm height
Serial Comm.	: RS232 or RS485 interface with modbus (RTU) protocol, Baud rate programmable.
Special Features	: 4-20mA re-transmission.(only current input version)

Panel (IP41)



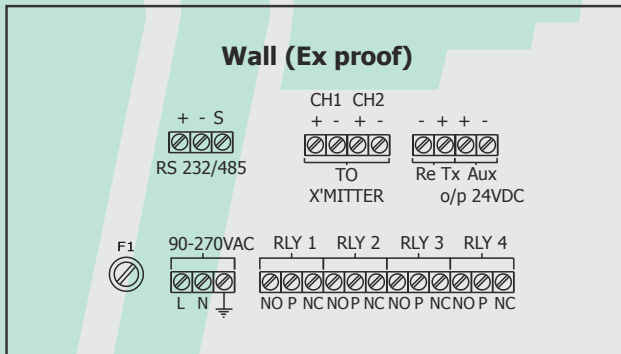
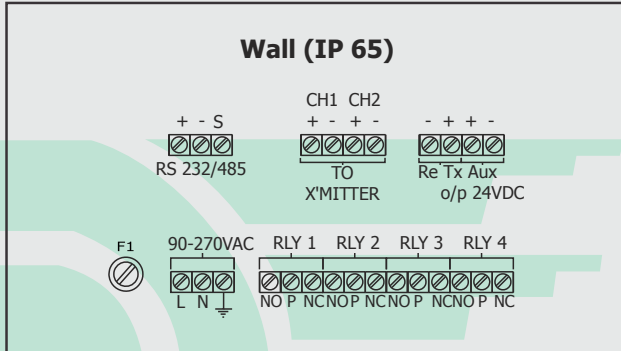
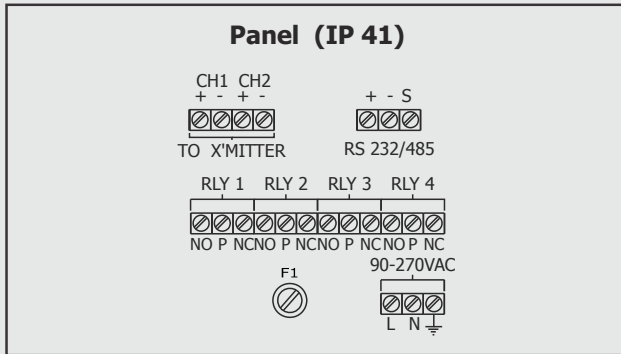
Wall (W proof)



Wall (Ex proof)



Termination :



Model Identification :

Enclosure

- ABS, Panel mtd, IP 41
- Glass polyester, Wall mtd IP-65
- Cast Al, Ex proof Gr IIB

Input Type

- 4 to 20 mA
- Thermocouple
- RTD
- 1 to 5 VDC
- Others

Power Supply

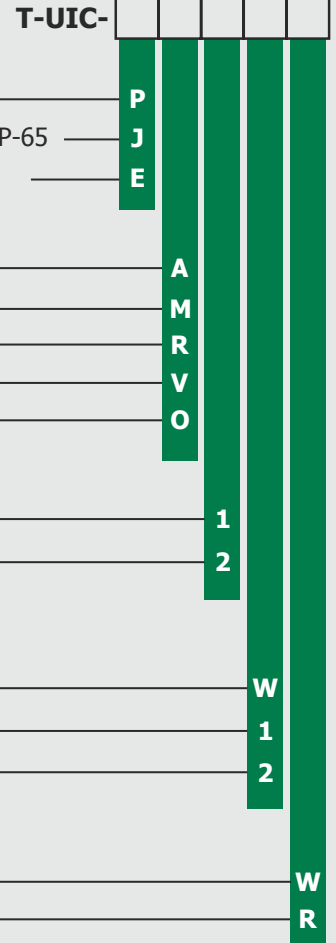
- 90 to 270 VAC
- 24 VDC

Serial Communication

- Without
- RS 232
- RS 485

Special Features

- Without
- Re-transmission



Enclosure Mounting Details :

