

Techtrol Flow Indicator Totaliser 'TFIT'



SINCE 1984

Is an advanced and sophisticated microcontroller based flow indicating totaliser. It can be used in conjunction with any flow transmitter to display flow as well as totalized flow.

Panel mtd



Wall mtd



Features :

- Accuracy $\pm 0.25\%$ of FSD.
- Two character tank identification.
- RS 232 or RS 485 serial interface with modbus RTU protocol.
- Four relay output's independently configurable on flow rate/total flow.
- Password protection.
- Line x 16 character dotmatrix backlit LCD display.
- Re-transmission.
- Non-volatile memory for total flow.

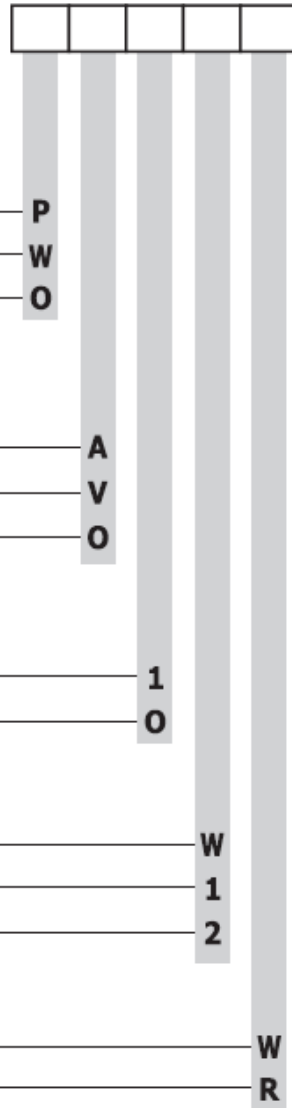
Construction & Operation :

It operates on an input signal of 4-20 mA or 1 to 5 VDC from the flow 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.

Specifications :

Display	: 2 Line x 16 character dotmatrix backlit LCD display, 4mm height. 10 digit totalisation (KL / ML / Lt), 5 digit flow rate (M ³ /H, ML/D, Lt/m, M ³ /m), 4 Red LED's for alarm status.
Accuracy	: $\pm 0.25\%$ of FSD.
Input	: 4-20mA or 1-5 VDC.
Calibration	: Zero and Span adjustment through 5 push button keys.
Relays	: 4 relays, Relay rating : SPDT x 5A, 230VAC, independently programmed for set-reset on flow rate.
Interface	: 4 - digit security code, 5 push button keys.
Protection	: Optical isolation for input & output. Lightening protection using MOV.
Response time	: 60 m.sec.
General	: Power supply : 90 or 270 VAC, 50-60 Hz. Amb. temperature : 0 to 60°C. Amb humidity : 95 % Rh non condensing. Power consumption : 4VA. Supply to transmitter : 24VDC, 30mA (current input version).
Instrument Enclosure type	: a) ABS panel mounting, Protection : IP-41 Size : 96H x 96W x 150mm depth, panel cutout : 92H x 92W. b) Glass polyester, wall mounting, conduit conn : PG-13.5, Protection: w.proof IP-65 Size : 160 x 160 x 90mm height. c) Al wall mounting, conduit conn : 1/2" NPT, Protection : Ex proof Gr IIA & IIB Size : 150 x 305 depth x 265mm height (`L' type).
Serial communication	: RS232 or RS485 interface with modbus (RTU) protocol, Baud rate programmable.
Special features	: 4-20 mA re-transmission (only current input version).

Model Identification No. - 'TFIT' -



Enclosure

- ABS, Panel mtd, IP 41 ————— **P**
- GI polyester, Wall mtd IP-65 ————— **W**
- Others ————— **O**

Input Type

- 4 to 20mA ————— **A**
- 1 to 5 VDC ————— **V**
- Others ————— **O**

Power Supply

- 90 to 270 VAC ————— **1**
- Others ————— **O**

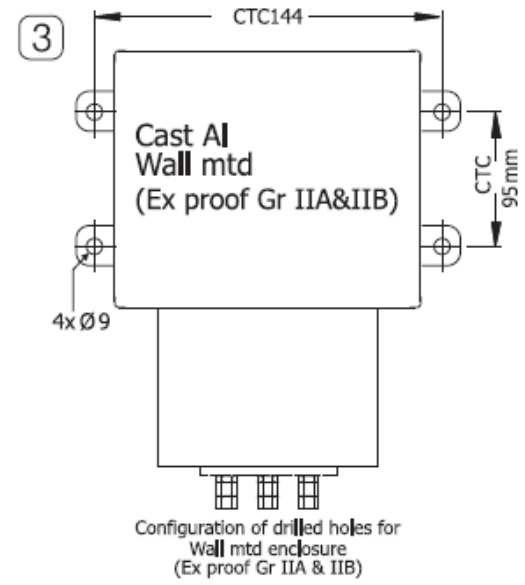
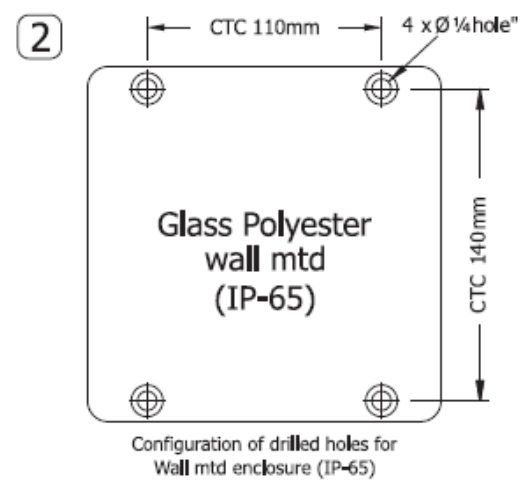
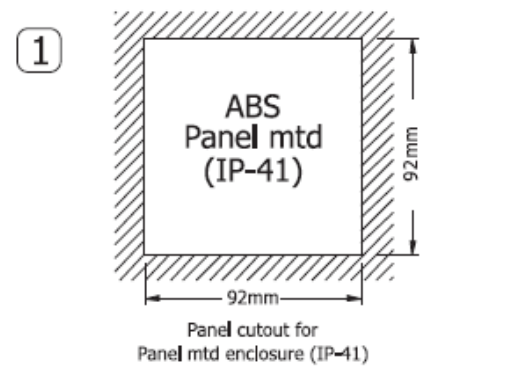
Serial Communication

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

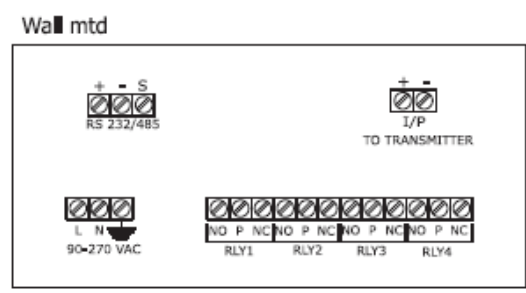
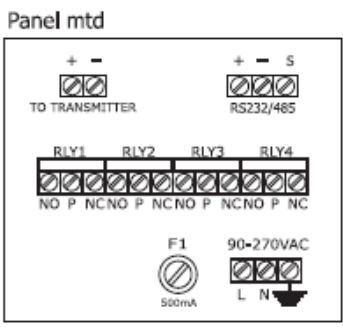
Special Features

- Without ————— **W**
- Re-transmission ————— **R**

Mounting arrangement



Termination



Ordering Information : Specify Model No & Range

PUNE TECHTROL PVT LTD
 S-18, MIDC, Bhosari, Pune : 411026 India
 ☎ +91-20-66342900, 27121052
 📠 66342998
 ✉ ho@punetechtrol.com
 🌐 www.punetechtrol.com



R A T E D
NSIC-CRISIL SE-1A

AREA REPRESENTATIVE