TP-554 Series

Temperature/Process Monitor With or Without Alarms

Features

- Very bright LED display, height 14mm
- DIN housing, 96 x 48 mm
- Programmable operating curve for standard signals, thermocouples,resistance thermometers, etc.
- Programmable operating curve, even non-linear, allowing the use of economical sensors
- Two relay outputs with two preset limit values

Additional features:

- DIN housing 96 x 48 mm
- Character height: 14 mm
- Resolution 14 bits
- Simple menu-driven programming, and operation with 4 keys
- Electrical connections by means of plug-in screw terminals
- Voltage supply: 10-30 VDC or 90-260 VAC
- IP 65/NEMA4 (front)
- Auxiliary power supply output for transducer or sensor
  10..30 VDC: 10 VDC ± 2%, 30mA
  90..260 VAC: 24 VDC ± 15%, 50mA and 10 VDC ± 2%, 30mA
- Hum eliminator (50/60 Hz user selectable)
- Serial interface allows reading of the measured values and set-up programming.

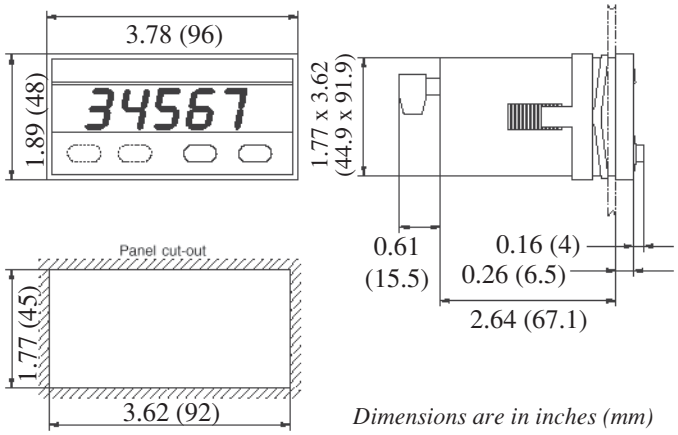
Specifications:

- Display range: -19.999..99.999
- Input ranges:
  0..400 Ω, 0..4000 Ω
  0..100 mV, -100..+100 mV

Thermocouples

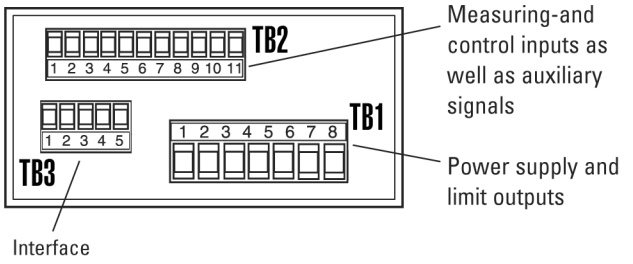
- Integrated operating curves for thermocouples(types B, C, D, E, G, J, K, L, N, R, S, T, U)
- Programmable input operating curve with up to 24 reference points
- 2 programmable limit values (TP551; unit without presets, has only 2 buttons)
- Outputs: Two (2) SPDT relays (250 VAC / 3A)
- Programmable hysteresis (on, off, on/off)
- SET key to reset the outputs
- Inputs: thermocouple, millivolt, resistance thermometer with measurement on 2, 3 or 4 wires, RESET to reset the outputs, KEY terminal to lock the front keys.

Dimensions:



Dimensions are in inches (mm)

Wiring:



TB1	TB2
1 Relay 2 Com. (Opto-Emitter)	1 Measuring input 1 (Sense)
2 Relay 2 N.0.	2 Measuring input 2 (– Ref)
3 Relay 2 N.C. (Opto-Collector)	3 Sensor (+Ref)
4 Relay 1 Com. (Opto-Emitter)	4 Current output for 0 .. 4000 Ω (+ Sense)
5 Relay 2 N.0.	5 Current output for 0 .. 400 Ω (+ Sense)
6 Relay 2 N.C. (Opto-Collector)	6 Keys locking
7 A.C. In (10-30 VDC)	7 Reference ground Reset / Key
8 A.C. In (Ground; 0 VDC)	8 Reset
	9 GND for DC Output (Pins 10 & 11)
	10 +10 VDC Out (30 mA)
	11 +24 VDC Out (50 mA) (AC units only)

TB3

	RS232	RS485	RS422
1	GND	–	–
2	RxD	DO+/RI+	RI+
3	TxD	DO–/RI–	RI–
4	–	–	DO+
5	–	–	DO–

Order Code

Example: TP554.010 0 00

Series:
TP551.012 = No Presets/Relays
TP554.010 = 2 Presets/Relays

Operating Voltage:
0 = 90 to 260 VAC
3 = 10 to 30 VDC

Options:
00 = without interface
05 = RS232
06 = RS422
07 = RS485

DIGITAL PANEL METERS