

### Application :

MODEL 2241B, 2244-T3 & 2253 is designed for monitoring the temperatures of L.V. windings of the Dry-Type Transformer/Cast Resin Transformers. It will display winding temperatures and take necessary control action as per set and differential values programmed by the user. The protection system also records maximum temperatures and will display the same along with corresponding channel number whenever relevant push button is pressed.

### Salient Features :

- ⇒ Power line filter with Fuse is incorporated in the input of the power supply to protect the equipment from High Energy Surge and Electrical Fast Transient.
- ⇒ High Scanning Speed
- ⇒ Remote Indication & Data Acquisition facility with burden upto 600 ohms.
- ⇒ Optional RS-485 MODBUS RTU Communication & Data logger.

ML : 2241B



ML : 2244-T3



Model: 2253



Specifications	Model 2241B	Model 2244-T3	Model 2253
Temperature Sensor input	RTD (Pt-100 IEC 60751)	RTD (Pt-100 IEC 60751)	RTD (Pt-100 IEC 60751)
No. of Sensor inputs	Four, Eight & Twelve	1 No	4 No's
No. of Relays	4 (Fan, Alarm, Trip and Fault)	2 No's (Alarm & Trip)	4 No's (Alarm, Trip, Fan & Fault)
Range	0°C-300°C	0 - 150 °C by default (Other ranges available on request -99.9°C to 400.0°C)	0 - 150 °C by default (Other ranges available on request -99.9°C to 400.0°C)
Resolution	0.1°C	0.1°C	0.1°C
Accuracy	± 1°C	± 1°C	± 1°C
Display Speed	User Settable (1-99 Seconds)	-	2 Seconds
Display	Six Nos. 0.5" Seven Segment LEDs	Quad Seven Segment LED display for Temperature	1 No Seven Segment LED display for Channel No Quad Seven Segment LED display for Temperature
Auxiliary Supply Voltage	90-260 V AC/DC	90-260V AC/DC	90-260V AC/DC
Output	Analogue output DC 4-20mA (Maximum burden 600 Ohms)	Analogue output DC 4-20mA (Maximum burden 600 Ohms)	Analogue output DC 4-20mA (Maximum burden 600 Ohms)
Communication	RS-485 MODBUS RTU (Optional).	-	RS-485 MODBUS RTU Data Logger Protocol (optional)
Contact Rating @ Resistive Load	5A @ 220 VAC / 5A @ 30DC	5A @ 220 VAC / 1A @ 220VDC	5A @ 220V AC Res. Load or 1A at 220V DC
Power Consumption	5 Watts	2 Watts	8 Watts
Weight	2Kgs. Approx without packing box	0.5Kg. Approx without packing box	1 kg
Enclosure	Aluminium Pressure Diecasting enclosure, powder coated all sides with acrylic viewing window, IP -55	96 Sq mm ABS Box Enclosure IP -20	96 Sq mm ABS Box Enclosure IP -20
Mounting	Projection Mounting	92 x 92 Cutout	92 x 92 Cutout
Operating conditions	Temp :- 30°C to 70°C	Temp : 0°C to 60°C	0°C to 60°C

### Type Tested For Model : 2241B

1. Protection class: IP55 as per IEC 60529 CAT-II
2. Cold Test : -50°C as per IEC 60068-2-1 & Dry Heat Test: +70°C as per IEC 60068-2-2
3. Vibration Test : Amplitude 0.15mm, frequency 10-55Hz, 1Hr 45mins / X,Y & Z axis as per IEC 60068-2-6
4. EMI / EMC Test. a) Electrostatic Discharge Immunity Test as per IEC61000-4-2 b) Electrical Fast Transient Immunity Test as per IEC61000-4-4 c) High Energy Surge Immunity Test as per IEC61000-4-5 d) Voltage Dips and Interruption Test as per IEC6 61000-4-11

Disclaimer : Precimeasure reserves the right to make any changes in the specification without prior notice.

**Application :**

MODEL 2242 is designed for monitoring the temperatures of L.V windings of the Dry-Type Transformer/Cast Resin Transformers. It will display winding temperatures and take necessary control action as per set and differential values programmed by the user. The protection system also records maximum temperatures and will display the same along with corresponding channel number whenever relevant push button is pressed.

**Salient Features :**

- ⇒ Power line filter with Fuse is incorporated in the input of the power supply to protect the equipment from High Energy Surge and Electrical Fast Transient.
- ⇒ High Scanning Speed
- ⇒ Remote Indication & Data Acquisition facility
- ⇒ USB to RS-485 MODBUS RTU Communication for Data logging.  
USB Type-B Connector for Configuration.



ML :2242

UL / cUL CERTIFIED  
Certificate Number : E519414

Specifications	Model 2242
Temperature Sensor input	K Type thermocouples
No. of Sensor inputs	Three
No. of Set-points	SIX(Alarm, Trip, Fan1, Fan2, Relay3, Relay4)
Range	-50C to 250°C
Resolution	0.1°C increments
Accuracy	±3°C
Display Speed	Default 3 Seconds, User selectable 1-20
Display	Five nos 0.5" Seven Segment LEDs
Auxiliary Supply Voltage	85V to 260VAC 50/60 Hz 120V to 300 VDC
Output	0 to 1 mA = into 10,000. Ohms max. Load 4 to 20 mA = into 500 Ohms max. Load
Communication	USB to RS-485 MODBUS RTU Communication for Data logging. USB Type-B Connector for Configuration only.
Contact Rating @ Resistive Load	Alarm,Trip,Relay3 & Relay 4 10A@120/240 VAC Fan1 & Fan2 20A@ 120/240VAC
Power Consumption	15W Max (at Full Load)
Weight	3kgs Approx. without packing box
Enclosure	Panel Mount thru Cutout Indoor Mounting only
Operating conditions	Temp : -30°C to 50°C
Storage Temperature	Temp : -50°C to 70°C

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