

244 Meter relay panel meters

FEATURES

- Class 1.5 Accuracy
- Isolated input signal
- LED relay status indicators
- Isolated input signal



APPROVALS

- CE Approved

Series 244 meter relays combine a highly accurate indicator with High and Low set point relays. The relays can operate alarm and control devices when the monitored signal value moves outside the chosen set point limits shown by adjustable red index pointers. A single compact case houses the unit which requires only the input signal and power supply thus saving space and installation time.

PRODUCT CODES

Model	No. Relays & Setpoints	Function
M244-302A	Two relays, two setpoints	Mid band de-energised, outside band energised
M244-30RA	Two relays, two setpoints	Midband de-energised, outside band energised – operates from 2, 3 or 4 wire RTD
M244-30TA	Two relays, two setpoints	Midband de-energised, outside band energised – operates from thermocouple input

SPECIFICATIONS

Measuring Inputs	
DC Voltage	40 to 800 mV, 1 to 60 V, 100 to 600 V
DC Current	25 to 600 μ A, 1 to 60 mA, 1 to 5A
AC Voltage	40 to 800 mV, 1 to 60 V, 100 to 600 V
AC Current	1 to 6 mA, 100 to 600 mA, 1 to 5A
Frequency	45 to 55 Hz, 48 to 52 Hz, 45 to 65 Hz, 55 to 65 Hz
Thermocouple (J, K, S)	0 to 250 °C, 0 to 600 °C, 0 to 1200 °C, 0 to 600 °C
Temperature Dependent Resistor (Pt 100)	- 200 to + 800 °C
Outputs	
Switching element	Potential free alternative relay contacts. Switching power at resistive load: ≤ 600 VA (3 A, ≤ 250 V)
Output Channel I	Adjustable by MIN limit value
Output Channel II	Adjustable by MAX limit value
Relay Characteristics	
Adjustments elements on rear panel	Range of limit value adjusting (MIN, MAX) 0 to 100% F.S.D.
Setting accuracy	± 5 % (25 to 75 %), ± 15 % (0 to 25 %, 75 to 100 %)
Setting reproducibility	< 2 %
Hysteresis	< 1 % F.S.D
Delay time adjusting range	0.5 to 30 s
Setting accuracy	± 20 % ± 2 s
Setting reproducibility	< 2 %
Supply	
Input	110/230 V ± 10 % 45 to 65 Hz or 24 V DC
Power consumption	2 VA
Environmental	
Operating temperature	0 to 55 °C
Storage temperature	-20 to 60 °C
Relative humidity	≤ 75 % yearly average, no condensation
Enclosure	
Material	Flame retardant plastic (UL94V-0)
Dimensions	Front dimension: 96 mm x 96 mm, panel cut-out: 92 mm x 92 mm, installation depth: max 120 mm
Screw Connector	Up to 2.5 mm ²
Mounting	Fixing element to panel
Weight	0.6 kg

APPLICATIONS

- Liquid level control
- Load Shedding
- Power factor correction
- High and low alarms
- Shutdown
- Frequency monitoring
- Temperature indication and control

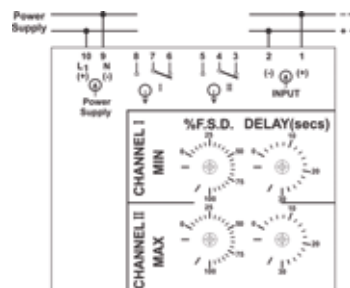
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SPECIFICATIONS

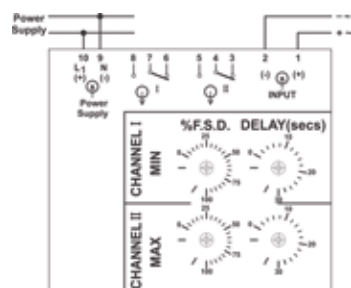
Protection	Corresponding to DIN 40 050
Housing	IP52
Connector	IP00
Safety	Class II in accordance to IEC 348, DIN 57411

WIRING DIAGRAMS

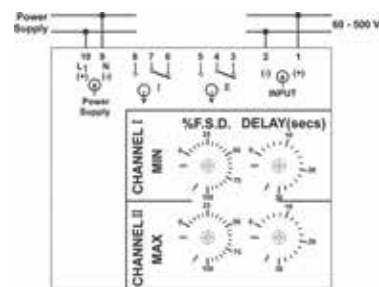
AC/DC VOLTAGE METER



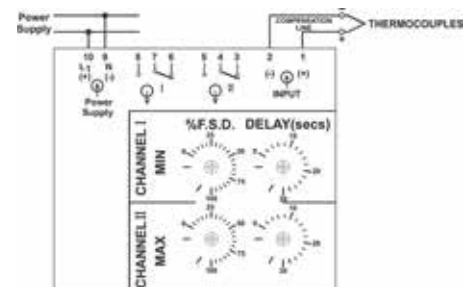
AC/DC CURRENT METER



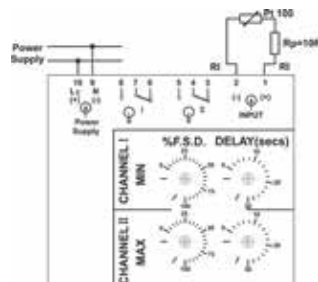
FREQUENCY METER



THERMOMETER WITH THERMOCOUPLE



THERMOMETER WITH PT100 PROBE



Pt 100 (RTD probe)
 Rp = wires resistively compensation resistor:
 built-in potentiometer
 RI = wires resistively
 $R_p + R_I = 10 \Omega$

DIMENSIONS

