



Meter Relays

Series 007 Analog Meter Relay Specification

KEY FEATURES

- Indicator Class 1.5 Accuracy
- Stable electronic switching circuit does not use lamps, photocells, inductors or capacitors
- Isolated input signal
- Control function continues if the indicator becomes damaged
- Rugged, shock and vibration resistant design
- LED relay status indicators

Series 007 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.

Applications

- Level control
- Load shedding
- Power factor correction
- High & Low alarms
- Shutdown
- Overload alarm
- Temperature indication and control

Accessories

The following optional accessories are also available for the 239 Meter Relay:

- Relay latching
- External reset switch
- Finger knob setpoint adjusters
- Hysteresis
- Panel mounting gasket

Product Technical and Performance Specifications	
Adjustments	
Front panel	Set-point potentiometer(s)
Rear panel	Delay potentiometer(s)
Measuring Inputs	
AC Voltage	10V to 600V RMS (Sensitivity 1Kohm/V to 100Kohm/V, max 2.5Mohm)
AC Current	1mA to 15A RMS (20mV drop)
DC Voltage	10mV to 600V RMS (Sensitivity 1Kohm/V to 100Kohm/V)
DC Current	100uA to 15A (20mV drop) Center zero option up to 15/015 amps
Max continuous input voltage	1.2x rating (600V max.)
Max continuous input current	1.2x nominal (15A max.)
Max. short duration input current	6x nominal for 6 sec. (30A max.)
Freq. monitoring	50 to 60Hz +/-10%
Burden	<0.5VA
Damping Time	1 second
4" Scale	100 deg. Deflection
Panel Material	Ferrous or non-ferrous
Dielectric Test	2600V RMS for 1 min.
Auxiliary Supply	
Burden	<1.5W
Enclosure	
Flammability	UL94V1
Terminal capacities	1 to 4mm ² solid or stranded conductors
Accuracy	
Indicator accuracy	Class 1.5
Set-point range	98% of scale
Set-point accuracy	1% of range
Set-point hysteresis	2% of range
Trip repeatability	0.5% of range
Relay trip-time	<1 second
Time delay	0-20 seconds, adjustable by potentiometer on rear panel. Option: 0-10 sec & 0-40 sec.
Indication	Single red LED, per set-point, to indicate trip condition
Outputs	
Relays	DPCO contacts rated 5A @ 250VAC 5A @ 30VDC resistive electrical life >10 to the 4th power operations @ 5A, 250VAC Contact class IIB (IEC 60255-0-20)
Relay logic	Configurable to energise or de-energise on trip
Environmental & Mechanical	
Ambient temperature reference range	+15 deg C to +30 deg C
Nominal range of use	0 deg C to +60 deg C
Storage temperature	-20 deg C to +70 deg C
Relative humidity	<90%, non condensing
Shock	15g/6ms (EN 60068-2-27)
Bumping	40g/6ms (EN 60058-2-29)
Vibration	10-300Hz (EN 60068-2-6)
Protection Class	
(BS EN 60529)	Terminals to IP20
	Enclosure to IP50