

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

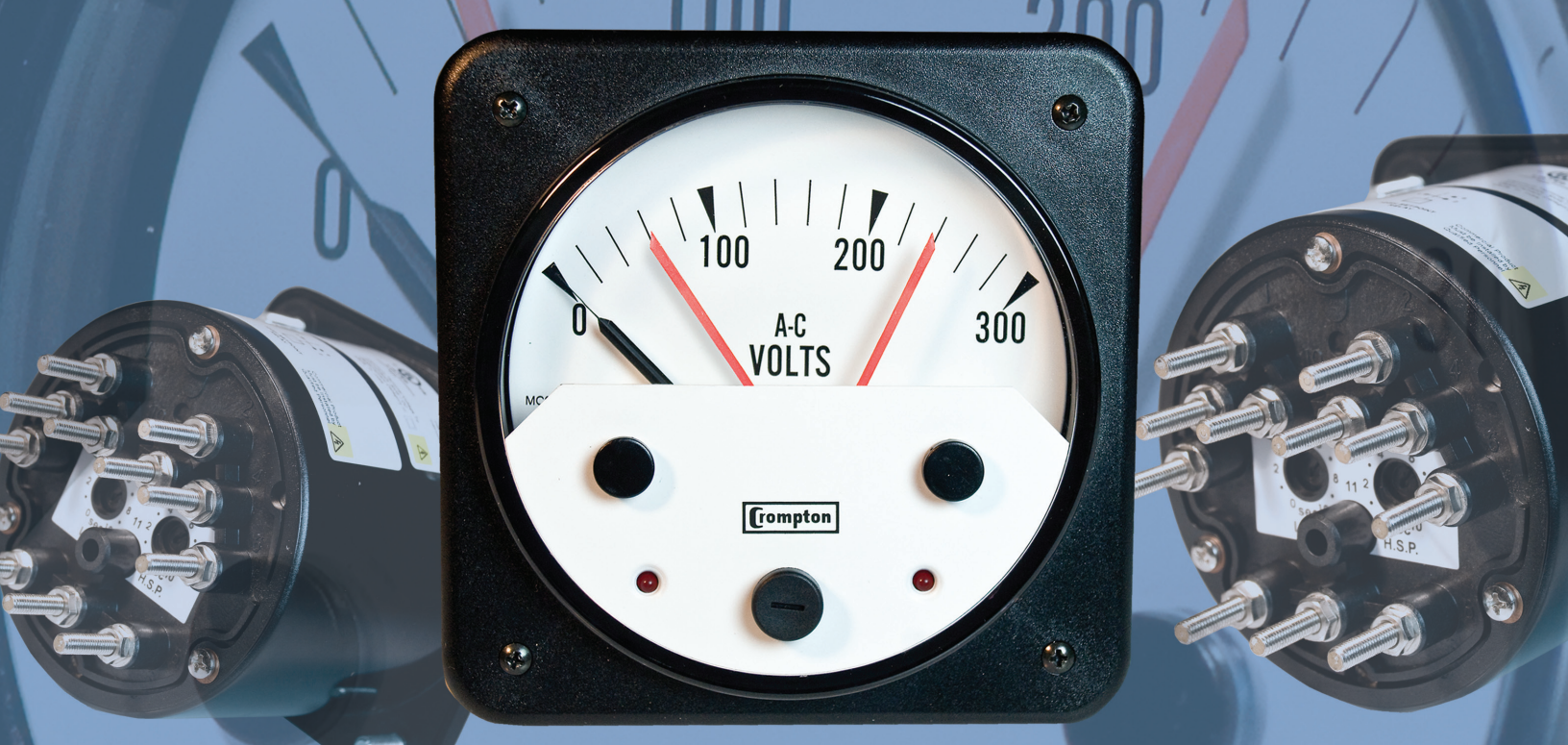
Adjustments		Accuracy	
Front panel	Set-point potentiometer(s)	Indicator accuracy	Class 1.5
Rear panel	Delay potentiometer(s)	Set-point range	98% of scale
Measuring Inputs		Set-point accuracy	1% of range
AC Voltage	10V to 600V RMS (Sensitivity 1Kohm/V to 100Kohm/V, max 2.5Mohm)	Set-point hysteresis	2% of range
AC Current	1mA to 15A RMS (20mV drop)	Trip repeatability	0.5% of range
DC Voltage	10mV to 600V RMS (Sensitivity 1Kohm/V to 100Kohm/V)	Relay trip-time	<1 second
DC Current	100uA to 15A (20mV drop) Center zero option up to 15/015 amps	Time delay	0-20 seconds, adjustable by potentiometer on rear panel. Option: 0-10 sec & 0-40 sec.
Max continuous input voltage	1.2x rating (600V max.)	Indication	Single red LED, per set-point, to indicate trip condition
Max continuous input current	1.2x nominal (15A max.)	Outputs	
Max. short duration input current	6x nominal for 6 sec. (30A max.)	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)
Freq. monitoring	50 to 60Hz +/-10%	Relay logic	Configurable to energise or de-energise on trip
Burden	<0.5VA	Environmental & Mechanical	
Damping Time		Ambient temperature reference range	+15 deg C to +30 deg C
4" Scale	100 deg. Deflection	Nominal range of use	0 deg C to +60 deg C
Panel Material	Ferrous or non-ferrous	Storage temperature	-20 deg C to +70 deg C
Dielectric Test	2600V RMS for 1 min.	Relative humidity	<90%, non condensing
Auxiliary Supply		Shock	15g/6ms (EN 60068-2-27)
Burden	<1.5W	Bumping	40g/6ms (EN 60058-2-29)
Enclosure		Vibration	10-300Hz (EN 60068-2-6)
Flammability	UL94V1	Protection Class	
Terminal capacities	1 to 4mm2 solid or stranded conductors	(BS EN 60529)	Terminals to IP20
			Enclosure to IP50

Direct Sales and Support

USA: +1 (800) 327-6996
 UK: +44 (0) 870-870-7500

cromptonusa.com
crompton-instruments.com
energy.te.com





Meter Relays

Series 007 Switchboard Analog Meter Relays

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:

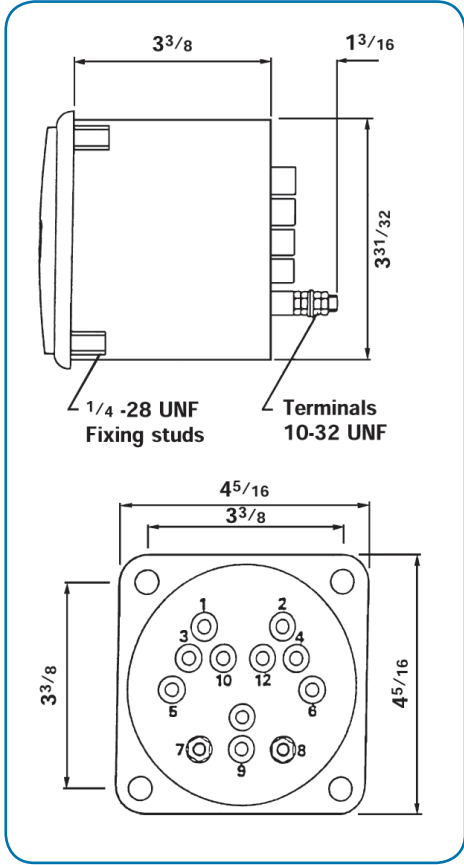
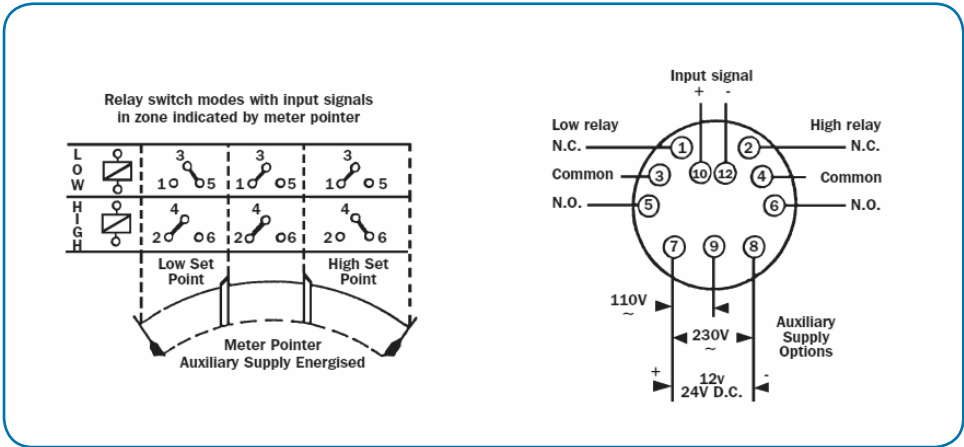
- Relay latching
- External reset switch
- Finger knob setpoint adjusters
- Hysteresis
- Panel mounting gasket

Product Coding System		
Model	No. Relays & Setpoints	Function
007-300A	One relay, two setpoints	Upscale de-energized, down scale energized
007-301A	One relay, one setpoint	Upscale energized, downscale de-energized
007-302A	Two relays, two setpoints	Mid band de-energized, outside band energized
007-303A	Two relays, two setpoints	Both upscale energized, downscale de-energized
007-304A	Two relays, two setpoints	High and low midband energized, outside band de-energized – no time delay
007-305A	Two relays, two setpoints	Both upscale de-energized, downscale energized
007-307A	One relay, one setpoint	Upscale de-energized, downscale energized
007-30RA	Two relays, two setpoints	Midband de-energized, outside band energized – operates from 2, 3 or 4 wire RTD
007-30TA	Two relays, two setpoints	Midband de-energized, outside band energized – operates from thermocouple input

For complete ordering codes, including input, scaling and auxiliary ratings, please consult your sales representative.

Dimensions:

Connections



Direct Sales and Support

USA: +1 (800) 327-6996
UK: +44 (0) 870-870-7500

cromptonusa.com
crompton-instruments.com
energy.te.com

