



LED Digital | Analog Combination

Crompton Instruments model 007-DI features a combination of the traditional 250° 4 1/2" switchboard indicator with the trend indication plus the benefits of wide angle LED visibility. This rugged shock and vibration resistant design provides precision accuracy and instantaneous reading via the bright in-dial mounted 3 1/2" digit LED display.

Description

Model 007-DI digital analog indicators are ideal for all applications where moving pointer instruments are preferable to indicate trend with the simultaneous display of a high visibility precision LED readout for increased user interface.

The 007-DI is interchangeable with other analog and digital instruments designed to directly mount in to a standard ANSI-C39. 4 1/2" switchboard cut-out.

Available in side, center, or off-set zero versions, the 007-DI can accept AC and DC current and voltage inputs as well as a wide range of transducer outputs, making it suitable for a variety of other applications including low-load current, temperature, speed, Watt/VARS, percent and level.

Features

- Rugged shock and vibration resistant pivot and jewel design
- High accuracy LED display
- Wide selection of AC and DC inputs
- Maximum trend indication visibility
- Input isolation
- External decimal point selection option
- Interchangeable with 4 1/2" switchboard meters

Benefits

- Cost effective
- Meets all the requirement of ANSI-C39.1 (1981)
- IP54 (NEMA 3) protection
- Optional IP55 (NEMA 4) gasket
- Bump, shock and vibration proof
- Customized option and features

Applications

- Switchgear
- Distribution systems
- Generator sets
- Control panels
- Energy management
- Building management
- Utility power monitoring
- Process control
- Motor control

Specifications

Inputs	DC Voltage: 20mV-600V (1MΩ input impedance as standard) DC Current: 1mA-1A, 4 to 20mA (Voltage drop 200mV nominal) External shunt operation (50mV and 100mV) AC Voltage: 200mV-600V (1 kΩ /volt) AC Current: 1mA-999mA (Using internal shunt, voltage drop 200mV nominal) 1A, 2A, 5A and 10A using internal current transformer
Common mode rejection	=>80dB @ 50/60Hz
Overload	Voltage: x 1.2 continuous. x 1.5 for 10 seconds Current using internal CT: x 1.2 continuous. x 10 for 10 seconds
External power requirement	Standard: 120 and 240V 315% Optional: 480V 315% AC 40-60Hz
Burden	3VA @ 60Hz
DC	Standard: 12, 24, 48, 110 and 125V ±15%
Display analog	Long-scale moving coil. 250° deflection. Scale length 6.8" Response time less than 2.5 seconds
Display options	Center or offset zero. Scale plate in colors other than white Colored lines or segments on scale
Digital display	3 1/2 digit red LED. 7 segment (7.6mm, 0.3" high). Right hand decimal points. Polarity indication: positive / none. Negative / horizontal bar " - ". Update time (standard): 1 per second
Accuracy - analog	DC and AC ±1% of FSD (calibrated at 25°C)
Accuracy - digital	DC: ±0.05% of reading ±1 count ±100ppm of reading / °C max AC current: 0-1 Amp ±0.1% reading ±3 counts ±150ppm of reading / °C AC current: 0-10 amps 30.1% reading 310 counts 3150ppm of reading / °C (maximum) AC voltage: ±0.1% of reading ±3 counts ±150ppm of reading / °C (maximum) Zero ±1 count ±0.2 counts/°C (maximum), DC offset scale only. Warm-up time: 1 minute
Long term stability	±2 counts
Calibration check	Recommended 12 monthly intervals
Enclosure code	IP54 (optional IP55 using panel gasket)
Operational temperature	0 to 60°C (32° - 140° F)
Storage temperature	-20° to 60°C (-4° - 140° F)
Humidity	Up to 90% relative @ 55° C. Tests to BS2011 part 2DA
Isolation test voltage	2kV RMS 60Hz for 1 minute
Interference rejection	To IEEE STD472, ANSI C37 90A, SEN 361503, IEC 255-4