

Model DM15 Digital Meter/Readout



Featuring a total user flexibility for input and display, the Model DM15 may be the last DC input indicator you'll ever have to specify. The scaling flexibility with 4-digit resolution, high accuracy, small size, and low cost makes the DM15 the best value DC input indicator.

A switch located behind the snap-off front lens provides for easy access to voltage and milliamp input selection. Full scales (0-10V, 0-20mA) or any subset (e.g. 200mV-2.5V, 4-20mA, etc.) can be scaled.

Scaling and calibrating the DM15 to display engineering units from the DC inputs easily done by setting the two push-buttons located behind the snap-off lens to zero (Lo), full scale (Hi), and a decimal point. The DM15 can be scaled within its wide -999 to 9999 display count.

The microprocessor-based design of the DM15 provides superior measurement stability, 1-digit repeatability, and 0.02% accuracy. In addition, engineering unit labels (flow, temperature, % and blanks) are provided to meet your application requirements.

- ▶ Current or voltage Selectable with 0-20mA or 0-10V Range.
- ▶ Push-Button Digital Scaling
- ▶ -999 to 9999 Resolution
- ▶ 0.02% Accuracy
- ▶ 1-Digit Repeatability
- ▶ Alarm Option
- ▶ 1/8 DIN Size Plastic Case

Alarm Setpoint Option

The alarm option provides a single setpoint that can be set to any point, + or -, within the DM15's measuring range. The user digitally selects the setpoint with two buttons located on the front panel.

Selection of Hi or Lo alarm, is set via a jump-jack located in the option card. Once the setpoint is set, it may be reviewed for its actual value by pressing the View button. A front panel LED illuminates red when the alarm trips.

The alarm Setpoint option card also includes one Form C, 05A relay (single alarm) for hook-up to external lamps, buzzers, or on/off control elements. Relay terminals are accessible at the rear of the instrument and provide hook-up for Normally Open or Normally Closed operation.

Model DM15 Input Specifications

Input Range*	Display Range*	Accuracy
0-20mA	User Scalable between -999 and 9999	0.02% rdg, ±1 count
0-10V	User Scalable between -999 and 9999	0.02% rdg, ±1 count

* Maximum sensitivity 200µV/ count; 0.4µA/count. Minimum sensitivity 1 count.

General Specifications

Repeatability:	±1 count
Stability With Time:	10 counts/year maximum
Stability With Temperature:	Zero, 1µV/ C; Span, 0.01% rdg/ C
Noise Rejection:	NMRR, 60dB @ 50/60Hz, ±1Hz CMRR, 120dB @ 50/60Hz, ± 0.1Hz, with 250Ω unbalanced
Overload Protection:	Power lead to ground, 1500VDC or VAC RMS Voltage up to 250VDC or VAC for 1 minute, V+ to V-; current up to 150mA DC or mA AC for 1 minute, 1+ to 1-
Input Impedance:	Voltage, 1MΩ; Current 5Ω
Display:	7-Segment red/orange LED, 14.2 mm [0.56"] H standard
Alarm Relay Contact Rating:	0.5A @ 120 VAC (noninductive load) Form C
Read Rate:	2 per second nominal
Environment Ranges:	Operating, 5°-45° C; Storage -40° C -65° C; Humidity, 80% RH noncondensing
Case Construction:	One-piece, black plastic
Weight:	1 lb. [454g]
Power:	115/230VAC ±10%, 50/60 Hz, 400Hz
Size (H x W x D):	1.57" x 3.54" x 5.35" (40mm x 90mm x 136mm)