



M-100 Series

Miniature Digital Process Meter

Designed for use with Thermocouples, RTDs, Potentiometers, Current and Voltage Output Sensors

Digital Meter is designed for measurement applications that require displaying an analog sensor's high level output, or the output of most types of thermocouples. It offers a bright, 4-digit LED display with 16-bit resolution in a 1/32 DIN size that is easily mounted. It is very simple to program and can be calibrated to display an analog sensor's DC voltage or current output in engineering units, or temperature in degrees Fahrenheit or Celsius. The M-100 meter comes with peak-hold functions standard, along with internal relay contacts for set-point control of an alarm or annunciator. It also features the ability to retransmit a 4-20 mA analog signal to a control system or data logger. Although the M-100 is commonly panel mounted, an important option is the aluminum enclosure that makes the M-100 into a companion digital readout for Alliance Sensors Group's LV, ME, and MR Series linear position sensors.

Features:

- 16-30VDC Powered
- 1/32 DIN Mount
- 16 bit A/D Microprocessor
- Visible high set point LED alarm and relay output with an optional audible piezo buzzer alarm
- Process valve peak-hold capture function
- Screw terminal connections
- Max temperature "Peak hold" display capture capability
- Analog retransmission output
- Optional protective aluminum enclosure

Technical Specifications:

Number of inputs	1
Display Range	-1999 to +9999
LED Display	Red, 4-digit, 0.275 inch (7mm high)
LED Display	0.5 second
Microprocessor sample rate	4 samples/second
Microprocessor A/D Resolution	16 bit
Accuracy	+/- .2% FS +/-1 unit
Environment	0 to 50C, 85% Max RH (non-condensing)
Operating Temperature	+32 to +125°F (0 to 50C)
Front Bezel Rating	IP51
Power	16 to 30 VDC
Current Draw	< 100 mA @ 24VDC
Analog Retransmission Output	0-20mA, 4-20mA, (0-5VDC, 1-5VDC with included 250ohm resistor)
Alarm Relay Contact Rating	1A @ 30VDC
Weight	2.1 Ounces
Case Dimensions	1 inch X 2 inch X 3inch (24 X 48 X 75mm)
Panel Cutout Dimensions	1.77" X .87" (45 X 22mm) (1/32 DIN)

Input Options:

Thermocouple	K, T, J, R, S, E
RTD	PT100, Cu50
Resistance	0-375 ohms
mV (DC)	0-30mV
Volts (DC)	0-5V, 1-5V, 0-10V
mA (DC)	0-10mA, 0-20mA, 4-20mA

Options:

- Aluminum enclosure:*
- Audible Piezo Buzzer Alarm:*

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