M-100 Series
Miniature Digital Process Meter

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

The M-100 Series Single Channel Digital Process Meter was designed for applications where the temperature, voltage or current of the sensor's output needs to be displayed. This 16-bit, 4-digit LED display is simple to program; can be calibrated to read Fahrenheit, Celsius, Engineering units, Analog Voltage, Analog Current or Resistant. Easily mounts on 1/32 DIN. The M-100 comes standard with peak-hold functions, the ability to retransmit the analog signal to a control system or data logger, plus an internal relay for alarm.

Features:

- 16-30 VDC 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
- Case Dimensions: 1" x 2" x 3" (24 x 48 x 75 mm)
- Panel Dimensions: 1.77" x .87" (45 x 22 mm) (1/32 DIN)

- Process valve peak-hold capture function
- Screw terminal connections
- Max temperature peak-hold display capture capability
- Analog retransmission output

Options: Aluminum Enclosure / Audible Piezo Buzzer Alarm

Technical Specifications:

Number of Inputs:	1
Display Range:	-1999 to +9999
LED Display:	Red, 4-digit, 0.275 inch (7 mm 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 50 C, 85% Max. RH (non-condensing)
Operating Temperature:	+32 to +125 F (0 to 50 C)
Front Bezel Rating:	IP51
Power:	16 to 30 VDC
Current Draw:	< 100 mA @ 24 VDC
Analog Retransmission Output:	0-20 mA, 4-20 mA, (0-5 VDC, 1-5 VDC with included 250 ohm resistor)

Alarm Relay Contact Rating:	1A @ 30 VDC
Weight:	2.1 ounces
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):	0-10 mA, 0-20 mA, 4-20 mA

ALLIANCE SENSORS GROUP
A DIVISION OF H.G. SCHAEVITZ LLC

Alliance Sensors Group
7300 Rt 130 N, Suite 22
Pennsauken, NJ 08110USA
Ph: 856-727-0250
www.alliancesensors.com
info@alliancesensors.com