

MIC 1880[™]

Process and AC/DC Volts & Current Metering

1/8 DIN Process Meter with Alarm

DESCRIPTION

The Partlow brand MIC 1880 is a series of 1/8 DIN instruments which offer breakthrough display technology as well as easy-to-program user setup. Its large LED display features the ability to change color based on process status such as exceeding the count preset. Therefore, when monitoring critical values, the MIC 1880 panel meter provides operators with an instant visual alert to changes in the application's status.

Models with input characteristics for temperature, DC Process, and AC or DC Volts/Amps are available. These intelligent units offer multiple control & alarm outputs, optional serial communication, and specialized functions on analog input units. The front panel is rated NEMA 4X/IEC IP65 for use in washdown or dusty environments.

APPLICATIONS:

The Partlow MIC 1880 digital indicator is an easy-to-use, low cost solution for indication and display within industrial temperature and process measurement applications — providing high visibility and excellent accuracy in a compact size.

INDUSTRIES

- Industrial and lab ovens/furnaces
- Plastics and thermal forming
- Packaging applications
- And any other display of process measurement especially where visible notification an out-of-range alarm condition is a requirement

FEATURES/BENEFITS

- Large Red/Green Color Selection Display also may be set to change color at alarm condition.
- 1/8 DIN NEMA 4X/IP65 Front Panel Sealing
- Thermocouple, Process, Voltage and Current Input
- Optional Serial Communications
- Relay, Open-Collector and Linear Outputs
- High or Low Alarm Conditions

George R. Peters Associates BALES REPRESENTATIVES

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Web Site: www.grpeters.com

www.partlow.com • www.danaherindustrialcontrols.com



PARTLOW™brand

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1/8 DIN Process Meter with Alarm

SPECIFICATIONS*

STANDARD FEATURES

4 per second input sample rate Universal input

Simple 4 button operation, Large 4 digit 18mm high red or green display with color change on alarm possible

Plug-in output modules - install just the function needed

Multipoint scaling & Tare functions Jumperless input configuration

Auto-detection of installed output modules

Process alarms

Rugged ABS Plastic housing

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature: 0° to 55° Celcius, 32° to 131° Fahrenheit

Storage Temperature: -20° to 80° Celsius, -4° to 176° Fahrenheit

Relative Humidity: 20% to 95% noncondensing

ELECTRICAL

Supply Voltage: 90-264 VAC, 50/60 Hz, or 20-50 VAC/VDC

Power Consumption: 5 Watts

DISPLAY:

Type: Red/Green, 7 segment LED, 5 digit primary display, single digit secondary

Height: 0.71" (18mm) primary display, 0.3" (7mm) secondary display Annunciators: Output 1 & 2 status

CONTROL INPUTS:

Type: Sinking, Edge Sensitive **Logic:** Low ≤ 2.0 VDC, High ≥ 3.0 Response Time: 25 ms

Impedance: 4.7 k Ω to +Voltage Function: Programmable

SENSOR/PROCESS INPUTS:

Temperature: B, J, K, N, S, & T thermocouples, 3 & 4 wire RTDs

DC Process: to 50 mA, ±10Volts DC, ±100 mV AC Volts/Amps: from 0-1 VAC to 0-600 VAC, 0-1 mA to 0-1 amp

DC Volts/Amps: from 0-100 mV to 0-600 VDC, 0-1 mA to 0-2 amps

OUTPUTS

Solid State: NPN open collector, 30 VDC max., 100 mA max.

Relay: SPDT, 5A resistive @110 VAC

Latency: 75 µ seconds, plus 8 ms for relay pull-

Linear Outputs: 0-20mA, 4-20mA, 0-10V, 2-10V, 0-5V, 1-5V (field selectable)

Accessory Power Supply: 24VDC nominal; 30mA max

OUTPUT FUNCTIONS

Alarm Modes (Alarm 1 and 2): High/Low

ELECTRICAL PERFORMANCE

Accuracy: ±0.1% of span (±0.01% of span for DC Process)

COMMUNICATIONS INTERFACE

Interface: RS-485: West ASCII

Baud Rate selectable from 9600, 4800, 2400, or

Maximum Zones: 99

RATINGS/AGENCY APPROVALS

Conformance: UL, CUL, CE

PROTECTION

IEC IP65 (NEMA 4X) front panel

PHYSICAL DIMENSIONS

Panel Cutout: 1.77" x 3.62" (45mm x 92mm)

Width: 3.78" (96mm) Height: 1.89" (48mm) Depth: 3.93" (100mm) Weight: 9 oz. (254g)

Mounting: Panel Mount (bracket supplied)

WARRANTY

1 Year

* Specifications are for base models with standard features only unless otherwise noted. Specifications subject to change without notice in accordance with our DBS policy of continuous improvement. All product and brand names are trademarks of their respective owners. All rights reserved.

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Partlow Brand MIC 1880 Data Sheet (7/05)

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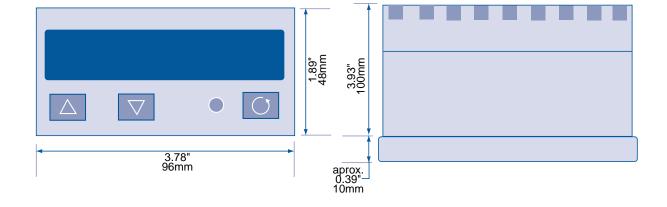
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MODELS

Code 1: Model #	Code 2: Function	Code 3: 2nd Relay Option	Code 4: Linear Output Option	Code 5: Serial Communication Option	Code 6: Power Supply
1880					
I/8 DIN Analog Input Process Indicator with Alarms	1 Temperature • Thermocouple • RTD 2 DC Process • 0 to 50mA • ± 10 Volts DC • ± 100mV 3 AC Volts/Amps 5 DC Volts/Amps	0 None 1 2nd Relay	0 None 3 Linear Output	Not fitted RS-485 Serial Comms Digital Input Option	0 90-264 VAC 2 20-50 VAC/VDC

DIMENSIONS - 1/8 DIN



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Satellite Locations:

North America: North Carolina, South Carolina, Connecticut, Massachusetts, New York, Canada, British Virgin Islands • Europe: United Kingdom, Italy, France, Germany, Spain, Slovakia • Latin America: Brazil • Asia: China, Japan, Korea, Singapore

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Process Automation Worldwide Brands:

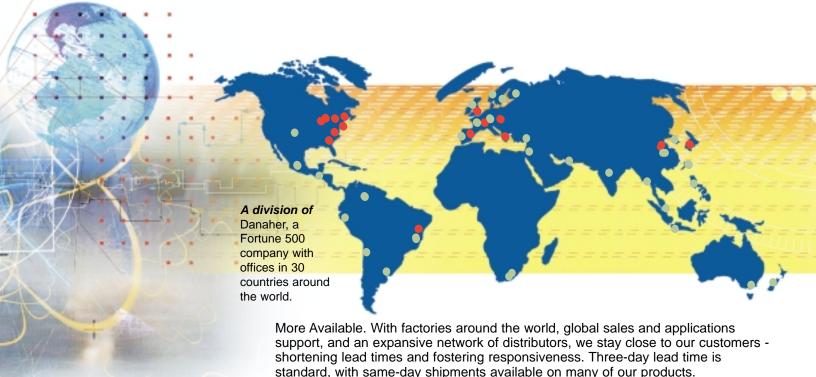
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More Selection. We have a broad selection of controllers to meet application requirements in a variety of industries. User-configurable, accurate and flexible, with low, mid, or high level performance ranges, our controller products meet your system and budgetary requirements.

More Reliable. Our experience with more than 25,000 customers has taught us to design controllers that are reliable and durable, with quality standards that meet six sigma requirements.

For additional information or a full-line catalog, contact DICG Customer Service or visit our web site.

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