



## 8080™

### Process and AC/DC Volts & Current Metering

#### 1/8 DIN Process Meter with Alarm

##### DESCRIPTION

The West brand 8080 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 8080 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 West 8080 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

WEST™ brand

8080™

## Process and AC/DC Volts & Current Metering

### 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° Celsius, 32° to 131° Fahrenheit  
**Storage Temperature:** -20° to 80° Celsius, -4° to 176° Fahrenheit  
**Relative Humidity:** 20% to 95% non-condensing

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

##### CONTROL INPUTS:

**Type:** Sinking, Edge Sensitive  
**Logic:** Low  $\leq$  2.0 VDC, High  $\geq$  3.0  
**Response Time:** 25 ms  
**Impedance:** 4.7 k $\Omega$  to +Voltage  
**Function:** Programmable

##### SENSOR/PROCESS INPUTS:

**Temperature:** B, J, K, N, S, & T thermocouples, 3 & 4 wire RTDs  
**DC Process:** to 50 mA,  $\pm$ 10Volts DC,  $\pm$ 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  $\mu$  seconds, plus 8 ms for relay pull-in  
**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:**  $\pm$ 0.1% of span ( $\pm$ 0.01% of span for DC Process)

##### COMMUNICATIONS INTERFACE

**Interface:** RS-485; West ASCII  
**Baud Rate** selectable from 9600, 4800, 2400, or 1200  
**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.

West™ brand and 8080™ are trademarks of Danaher Industrial Controls Group. All rights reserved.

© 2005 DICG Corp.

West Brand 8080 Data Sheet (8/05)

[www.corema.fr](http://www.corema.fr)

FABRICANT DE CAPTEURS DE TEMPERATURE

5 chemin des chevreuils - 33750 CAMARSAC  
 Tel : 05.56.30.66.12 Fax : 05.56.30.62.24 E-mail : corema3@wanadoo.fr

**COREMA**  
 BORDEAUX

**WEST™ brand**

**8080™**

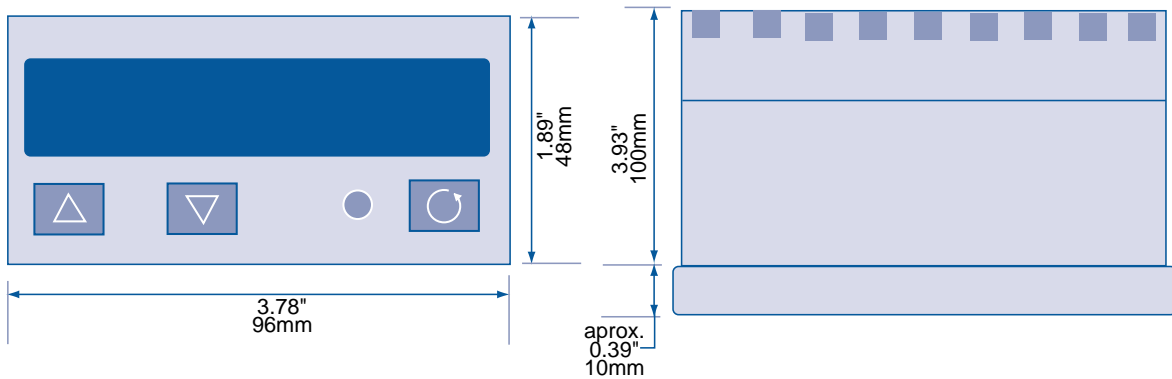
**1/8 DIN Process Meter with Alarm**

**Process and AC/DC  
Volts & Current Metering**

**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
<b>N8080</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1/8 DIN Analog Input Process Indicator with Alarms	<b>1</b> Temperature <ul style="list-style-type: none"> <li>• Thermocouple</li> <li>• RTD</li> </ul> <b>2</b> DC Process <ul style="list-style-type: none"> <li>• 0 to 50mA</li> <li>• ± 10 Volts DC</li> <li>• ± 100mV</li> </ul> <b>3</b> AC Volts/Amps <b>5</b> DC Volts/Amps	<b>0</b> None <b>1</b> 2nd Relay	<b>0</b> None <b>3</b> Linear Output	<b>0</b> Not fitted <b>5</b> RS-485 Serial Comms <b>6</b> Digital Input Option	<b>0</b> 90-264 VAC <b>2</b> 20-50 VAC/VDC

**DIMENSIONS - 1/8 DIN**



\* 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.

*Process Automation Worldwide Brands:*

*LFE™*

*Partlow™*

*PMA™*

*Rustrak™*

*West™*



**More Available.** With factories around the world, global sales and applications support, and an expansive network of distributors, we stay close to our customers - shortening lead times and fostering responsiveness. Three-day lead time is standard, with same-day shipments available on many of our products.

**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.

\* 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.

[www.corema.fr](http://www.corema.fr)

FABRICANT DE CAPTEURS DE TEMPERATURE

5 chemin des chevreuils - 33750 CAMARSAC

Tel : 05.56.30.66.12 Fax : 05.56.30.62.24 E-mail : corema3@wanadoo.fr

