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Display Modules

90110, 90120, and 90380



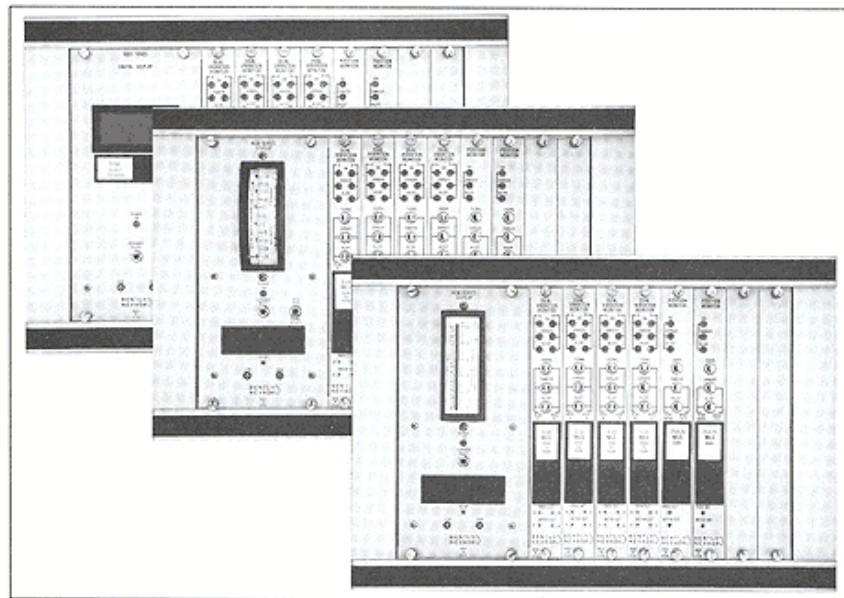
The choice of displays for your system's unique requirements

Bently Nevada offers three different displays for the 9000 power supplies: Digital, Electromechanical, and LED.

The display modules offer a common readout for all channels in a monitor rack. The modules consist of a front panel with a meter, buffered Keyphasor® output terminated at pin tip jacks, and associated electronic components. The panel also provides access to the power supply. The display is activated from a Channel Read switch on each monitor.

The 90110 Digital Display uses a 3 1/2-digit, 7-segment LED display. The 90120 Electromechanical Display uses an analog meter and can be used in all applications. The 90380 LED Segment Bargraph Display can also be used in all applications.

Displays are available in English and metric scales. A High Read Vibration option is available for the 90120 and 90380 modules only.



90110, 90120, and 90380 Display Modules

Specifications

ACCURACY

90110:

Accuracy: ±1 Count (least significant digit at +25°C).

Resolution: ±1° Celcius scale. ±1° Fahrenheit scale. ±1% scale.

90120 and 90380:

Accuracy: ±0.5% maximum at full-scale.

Tracking Error: ±2.0% of full-scale maximum.

DISPLAYS

90110: Digital.

90120: Electromechanical.

90380: LED Segment Bargraph.

HAZARDOUS AREA APPROVALS

BASEEFA: The 90110 and 90120 Display Modules are certified for use in

Zone 2, Ex N II, T5 and T4 environments. Order Part Number BA 90110 and/or BA 90120.

CSA: All of the above Display Modules are certified for use in Class 1, Division 2, Groups A, B, C and D environments. Order Part Numbers CA 90110, CA 90120, and/or CA 90380.

- 24 0 to 500°F
- 25 0 to 1,000°F
- 45 0 to 100%

Electromechanical Display Module

A B
90120- -

Option Description

- A High Read Option**
- 01 Without high read
 - 02 With high read. Available only for systems with vibration monitors.
 - 03 With 2X trip multiply.
 - 04 With 3X trip multiply.

B Display Range Option

- 01 0 to 100°C
- 02 0 to 150°C
- 03 0 to 200°C
- 04 0 to 250°C
- 05 0 to 500°C
- 21 0 to 200°F
- 22 0 to 300°F
- 23 0 to 400°F
- 24 0 to 500°F
- 25 0 to 1,000°F

PHYSICAL

Space Requirements: 4 rack positions.

Ordering Information

90110 Digital Display Module (7-Segment LED)

Option Description

Display Range Option

- 01 0 to 100°C
- 02 0 to 150°C
- 03 0 to 200°C
- 04 0 to 250°C
- 05 0 to 500°C
- 21 0 to 200°F
- 22 0 to 300°F
- 23 0 to 400°F

Display Modules

90110, 90120, and 90380

- 45 0 to 100%
- 46 Dual 0 to 100%/100 to 0 to 100%
- 51 0 to 5 mils peak to peak
- 52 0 to 3 mils peak to peak
- 53 0 to 10 mils peak to peak
- 54 0 to 15 mils peak to peak
- 55 0 to 20 mils peak to peak
- 65 0 to 125 μm peak to peak
- 66 0 to 80 μm peak to peak
- 67 0 to 250 μm peak to peak
- 68 0 to 400 μm peak to peak
- 69 0 to 500 μm peak to peak
- 70 0 to 1 in/sec peak
- 71 0 to 100 μm peak to peak
- 72 0 to 200 μm peak to peak
- 73 0 to 150 μm peak to peak

Note: Two and three ranges are available on one display as a product modification. For more information, please contact your Bently Nevada sales representative.

LED Display Module (Segment Bargraph)

A B

90380 - -

Option Description

A High Read Option

- 01 Without high read
- 02 With high read. Available only for systems with vibration monitors.

B Display Range Option

- 01 0 to 100°C
- 02 0 to 150°C
- 03 0 to 200°C
- 04 0 to 250°C
- 05 0 to 500°C
- 21 0 to 200°F
- 22 0 to 300°F
- 23 0 to 400°F
- 24 0 to 500°F
- 25 0 to 1,000°F
- 45 0 to 100%
- 46 Dual 0 to 100%/100 to 0 to 100%
- 51 0 to 5 mils peak to peak
- 52 0 to 3 mils peak to peak
- 53 0 to 10 mils peak to peak
- 54 0 to 15 mils peak to peak
- 55 0 to 20 mils peak to peak
- 65 0 to 125 μm peak to peak
- 66 0 to 80 μm peak to peak
- 67 0 to 250 μm peak to peak
- 68 0 to 400 μm peak to peak
- 69 0 to 500 μm peak to peak
- 70 0 to 1 in/sec peak
- 71 0 to 100 μm peak to peak
- 72 0 to 200 μm peak to peak
- 73 0 to 150 μm peak to peak



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