

PRO-BAR Series

Large-Size Bar Graph Process Displays

Features

- 50-segment bargraph display.
- 250 mm (10") scale length.
- Bright, wide-angle, red LEDs.
- Accepts 4-20 mA, 0-20 mA, 0-10 mA, 1-5 V, 0-10 V, or -5 to +5V signals.
- Units of measure window.
- Front panel sealed to IP54 (NEMA-12).
- Heavy-duty metal case.
- Can be mounted vertically or horizontally.
- Can be panel mounted, wall mounted, or suspended.
- Detachable screw-terminal connectors.
- Safety certified (CE Mark).

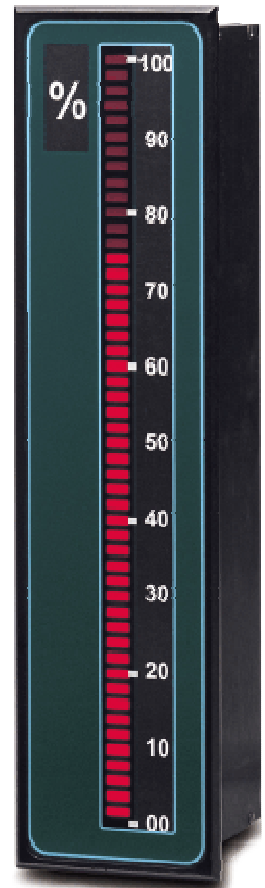
Description

The **PRO-BAR Series** provides economical, high-visibility 50-segment bargraph displays for popular process signals such as 4-20 mA, 0-10 mA, 1-5 V, and 0-10 V. The scale measures a full 250 mm (10") for exceptional visibility over long distances. A units-of-measure window allows the scale to be labeled.

The **PRO-BAR housing** is made of extruded aluminum and can be panel mounted, wall mounted, or suspended. Installation can be such that the bargraph is horizontal or vertical. When panel mounted, the front of the display is sealed to IP54 (NEMA-12).

LED bargraph meters are popular replacements for sight-glass or moving coil mechanical displays. With LEDs, there are no moving parts to wear, visibility is excellent, and the cost of maintenance is very low.

Bargraph meters are an ideal means to display relative values, with no need to interpret numerical data. They can be augmented by digital panel meters or large-digit numeric displays when absolute readings are required. The same process signal can be applied bargraph and digital meters.



Specifications





Signal

| | | | | |
|-----------------------|---|----------|--------|--------|
| Range | 4-20 mA | 0-1 mA | 0-10 V | 1-5 V |
| Input resistance | 22 ohms | 120 ohms | 1 Mohm | 1 Mohm |
| Bias current | N/A | N/A | 5 pA | 5 pA |
| Max input | 80 mA | 10 mA | 100 V | 100 V |
| NMR @ 50/60 Hz | 56 dB | 56 dB | 56 dB | 56 dB |
| Display | | | | |
| Format | 50 red LED segments | | | |
| Scale length | 250 mm (9.84") | | | |
| Accuracy | | | | |
| Accuracy at 25°C | ± 1% of reading ± 1 segment | | | |
| Span tempco | ± 0.1% of reading / °C | | | |
| Zero tempco | ± 0.05% of span / °C | | | |
| Resolution | 1 part in 50 | | | |
| Warm-up time | None required | | | |
| Calibration | Zero & span potentiometers | | | |
| Power Supply | | | | |
| Voltage options | 110 Vac or 230 Vac. | | | |
| Power consumption | < 3 W | | | |
| Mechanical | | | | |
| Bezel dimensions | 288 x 72 mm (11.33" x 2.83"), W x H. | | | |
| Panel cutout | 274 x 63 mm (10.78" x 2.48"), W x H | | | |
| Depth behind panel | 125 mm (4.92"), including connectors | | | |
| Width behind panel | 95 mm (3.74") | | | |
| Weight | 600 g (21 oz) | | | |
| Connectors | Detachable screw-clamp connectors | | | |
| Environmental | | | | |
| Operating Temperature | -10°C to 50°C (14°F to 122°F) | | | |
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) | | | |
| Relative Humidity | 0-90% RH, non-condensing | | | |
| Corrosion resistance | Avoid chemicals harmful to aluminum or polycarbonate. | | | |
| Protection | NEMA-12 (IP54) when panel mounted | | | |

Ordering Guide

PRO-BAR Series Large-Size Bargraph Process Displays

Create a model number in this format: **PB2001P**. This example calls out a PRO-BAR large bargraph meter with red LEDs, 110 Vac power, vertical format, wall mounting, and process input with default scaling of 4-20 mA = 0-100%. Includes plug-in screw terminal connectors.

| | | |
|----------------------|---|-------|
| Display Type |  PB Large Bargraph Display. | \$800 |
| Display Color |  2 Red LEDs. | NC |
| Power |  0 95 to 265 Vac. | NC |
| |  1 11 to 30 Vdc. | \$70 |

| | | |
|---------------------|--|------|
| Format | <input type="checkbox"/> 0 Vertical Format. | NC |
| | <input type="checkbox"/> 1 Horizontal Format. | NC |
| Mounting | <input type="checkbox"/> 0 Panel Mount. | NC |
| | <input type="checkbox"/> 1 Wall Mount. | NC |
| | <input type="checkbox"/> 2 Suspension Mount. | NC |
| Signal Input | Process Signals (e.g., 4-20 mA, 0-5 V, etc.) | |
| | <input type="checkbox"/> P Default Scaling. 4-20 mA = 0-100%. | NC |
| | <input type="checkbox"/> P1 Custom Scaling. | \$10 |

In the write-in field of your order, specify min input, min reading; max input, max reading. 24 Vdc excitation.