



DC Loop Powered Digital Pressure Gauge

DPG110



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Introduction

DPG110 is digital pressure gauge powered by a separate loop power supply from 12 to 30VDC. It is made for easy on-site installation. The DPG110 uses a high-precision piezo-resistive pressure sensor. The output signal is amplified by a high-precision, low-temperature drift amplifier. The signal is then fed into a high accuracy A/D converter for the microprocessor to process and then show on the LED display.

This flexible, simple to operate digital pressure gauge is safe, reliable, and easy to debug. The DPG110 is widely used in hydro-power, water, petroleum, chemical, mechanical, hydraulic, and other industries.

Features

- 4-20mA interface
- 4-digit 0.56" LED display
- Ceramic pressure sensor core
- Digital Calibration
- Anti-jamming design suitable for electromagnetic and harsh industrial environments.
- IP65 rated outlet port connector

Specifications

- **Measuring Range** 0 - 20MPa
- **Overload Pressure** 150%~200%
- **Pressure Type** A/G
- **Stability** $\leq 0.2\%$ FS per year
- **Power Supply** 12-30VDC
- **Display** 4 digits LED
- **Accuracy Range** $\pm 0.25\%$ for gauge pressure $> 5\text{psi}$
 $\pm 0.5\%$ FS for all others including absolute, compound gauge, and Vacuum ranges

- **IP Rating** IP65

- **Output** 4-20mA Signal

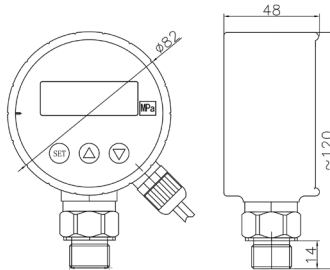
- **Operating Temp** $-30^{\circ}\text{C} \sim 80^{\circ}\text{C}$

- **Relative Humidity** $\leq 90\%$

- **Thread Size** 1/4 NPT

- **Thread Material** SS316

Dimensions



Operating Instructions

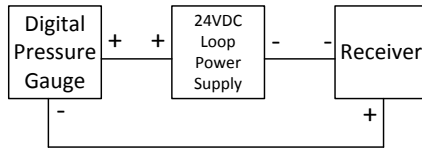
• Wiring

RED: +24VDC
Black: Ground

• Calibration

Press \blacktriangledown for 5 seconds for zero callibration.
Press \blacktriangle for 5 seconds for full scale calibration

Control Method





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WARNING: These products are not designed for use in, and should not be used for, human applications.

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3. Repair instructions and/or specific problems relative to the product.

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2. Model and serial number of the product, and
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