



AC/DC Powered Digital Pressure Gauge

DPG101

INSTRUCTION
SHEET



Introduction

DPG101 is an electronic digital pressure gauge used to monitor hydraulic fluids. It monitors the pressure via the resistance measured on an isolation membrane. 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 DPG101 is widely used in hydro-power, water, petroleum, chemical, mechanical, hydraulic, and other industries.

Features

- High resolution, 4-digit LED display
- 100mm standard gauge dial
- Stainless steel structure
- Parameter correction function (adjust instrument zero and error value)

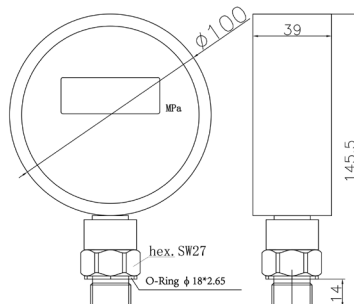
Specifications

Note, if the fluid being measured exceeds 80°C, select the high temperature accessory.

- **Measuring Range**
-0.1~0~100MPa
- **Accuracy Range**
±0.25% for gauge pressure >5psi
±0.5% FS for all others including absolute, compound gauge, and Vacuum ranges
- **Overload Pressure**
150%~200%
- **Pressure Type**
G/A
- **Stability**
≤0.1% FS per year
- **Power Supply**
220VAC
- **Display**
4 digits

- **Screen Size**
0.56" LED
- **IP Rating**
IP65
- **Relative Humidity**
≤90%
- **Operating Temp**
-30°C ~ 80°C
- **Fluid Temp**
-40°C ~150°C
- **Thread Size**
1/4 NPT Male
- **Thread Material**
SS316

Dimensions



Electrical Installation

- 4-20mA wiring
1 (red): power+
2 (Blue): power-

Notes to prevent Interference

- Keep connection as short as possible
- Use shielded wire
- Avoid direct access to the wiring of the user's device or devices causing interference.
- When using mini hoses, ground the shell separately

Mechanical Installation

Install directly on the hydraulic pipe line. Other size connectors can be ordered. In high vibration / shock environments, pressure pipe joints can be mechanically decoupled through the use of hoses.

NOTE: Vertical installation is required when the measuring range is less than 100kPa.