

# Model DPG80

Digital Pressure Gauge  
Battery powered

**Materontek**  
Sensing and Internet of Things

DPG80 is an integrated pressure gauge with display used to monitor fluids pressure. 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 LCD display.

## Features

- Measuring ranges from -1 ... 0 to 0 ... 2200 bar
- Accuracy 0.2 %FS, 0.5 %FS
- Battery operation (2 x 1.5 V AA cell)
- LCD display
- Peak value recording function
- Selectable ranges: kgf/cm<sup>2</sup>,psi,MPa,bar

## Application

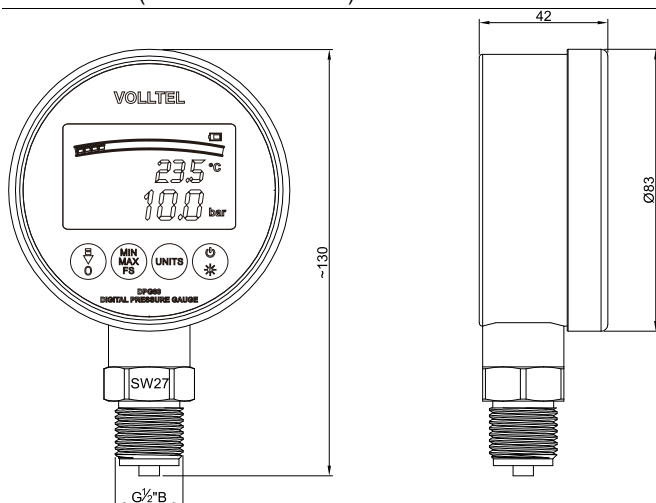
- Hydro-Power
- Water Treatment
- Petroleum
- Chemical
- Mechanical
- Hydraulic, And Other Industries.

## Technical data

### Performance

|                       |  |
|-----------------------|--|
| Pressure Range        | -1 ... 0 to 0 ... 2200 bar   |
| Display method        | 4 numerical digits for pressure display.<br>Peak display/Ambient temperature display |
| Accuracy              | ±0.2%FS, ±0.5%FS   |
| Power supply          | 2 x 1.5 V AA cell  |
| Overload Pressure     | 120%FS   |
| Unit                  | kgf/cm <sup>2</sup> ,psi,MPa,bar   |
| Long Term Stability   | ±0.3%FS/year   |
| Diaphragm             | SUS 316L   |
| Housing Material      | SUS 304  |
| Process Connection    | G1/2, G1/4, 1/4NPT, 1/2NPT, PT1/4, PT1/2, Tri-Clamp                                  |
| Operating temperature | -10 to 60 °C   |
| Protection            | IP54   |

### Dimensions (All dimensions in mm)



The listed specifications and dimensions are subject to change without prior notice

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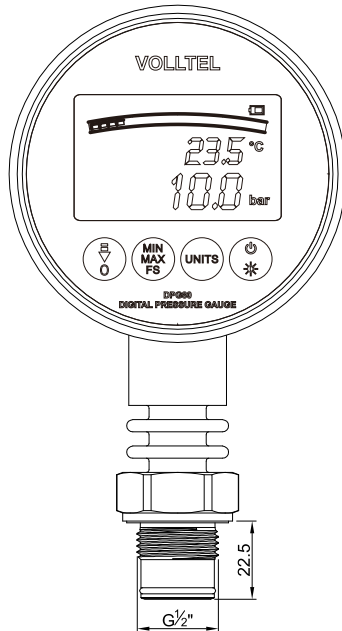
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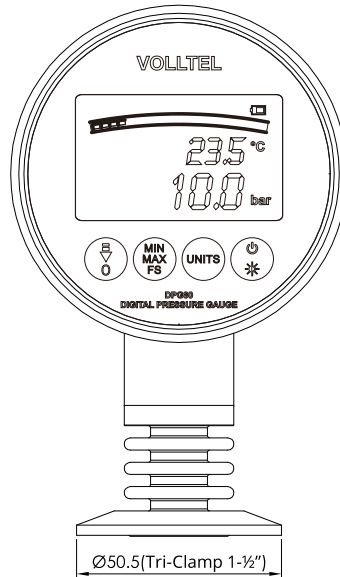
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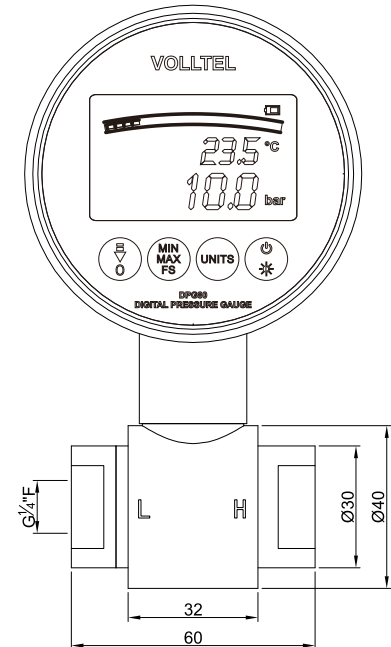
## Flush membrane pressure interface



## Clamp sanitary pressure connection



## Differential pressure measurement pressure interface



## Ordering code

| Model | Pressure range |         |    |                | Type           | Pressure Port |                     | Medium Temp |              | Accuracy |         |
|-------|----------------|---------|----|----------------|----------------|---------------|---------------------|-------------|--------------|----------|---------|
| DPG80 | 01             | 0.1bar  | 20 | 400bar         | G Gauge        | 01            | G¼ A ISO9974-2 male | T1          | -20 to 85°C  | A1       | ±0.2%FS |
|       | 02             | 0.2bar  | 21 | 600bar         | A Absolute     | 02            | G½ A ISO9974-2 male | T2          | -20 to 120°C | A2       | ±0.5%FS |
|       | 03             | 0.35bar | 22 | 1000bar        | D Differential | 03            | G¾ A ISO9974-2 male | T3          | -20 to 150°C |          |         |
|       | 04             | 0.6bar  | 23 | 1500bar        |                | 04            | G¼ B EN837 male     |             |              |          |         |
|       | 05             | 1bar    | 24 | 2000bar        |                | 05            | G½ B EN837 male     |             |              |          |         |
|       | 06             | 2bar    | 25 | 2200bar        |                | 06            | G¾ B EN837 male     |             |              |          |         |
|       | 07             | 2.5bar  | 26 | -0.2...+0.2bar |                | 07            | ¼NPT male           |             |              |          |         |
|       | 08             | 4bar    | 27 | -1...0bar      |                | 08            | ½NPT male           |             |              |          |         |
|       | 09             | 6bar    | 28 | -1...1bar      |                | 09            | PT¼ male            |             |              |          |         |
|       | 10             | 10bar   | 29 | -1...5bar      |                | 02            | PT½ male            |             |              |          |         |
|       | 11             | 16bar   | 30 | -1...10bar     |                | 11            | M20x1.5 male        |             |              |          |         |
|       | 12             | 20bar   | 31 | -1...15bar     |                | 12            | ¼MP-7/16-20UNF male |             |              |          |         |
|       | 13             | 25bar   | 32 | -1...30bar     |                | 13            | ¼HP-9/16-18UNF male |             |              |          |         |
|       | 14             | 35bar   | 99 | Custom         |                | 14            | G¼ female           |             |              |          |         |
|       | 15             | 50bar   |    |                |                | 15            | ¼NPT female         |             |              |          |         |
|       | 16             | 70bar   |    |                |                | 16            | G½ Flush            |             |              |          |         |
|       | 17             | 100bar  |    |                |                | 17            | G1 Flush            |             |              |          |         |
|       | 18             | 160bar  |    |                |                | 18            | ½NPT Flush          |             |              |          |         |
|       | 19             | 250bar  |    |                |                | 19            | Tri-Clamp 1-½"      |             |              |          |         |
|       |                |         |    |                | 20             | Tri-Clamp 2"  |                     |             |              |          |         |
|       |                |         |    |                | 99             | Custom        |                     |             |              |          |         |

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