PRESSURE GAUGE

PCE-PG 16

- **Pressure range: -0.088 ... +1.6 MPa**
- **Interface: RS485**
- **Pressure connection: M20 x 1.5 plug**
- **Operating temperature: -10 ... 50°C / 14 ... 122°F**
- **10 pressure units**

Our digital pressure gauge is a precise and reliable solution for measuring gas and liquid pressures in industry, laboratories and technology. With a measuring range of -0.088 MPa ... +1.6 MPa and a high resolution of 0.0001 MPa, our digital pressure gauge is ideal for applications that require maximum measuring accuracy. The accuracy is 0.1% FS, which guarantees stable and repeatable measurement results. The device supports ten selectable pressure units: bar, psi, kPa, MPa, Pa, inHg, mmHg, inH_2O, mmH_2O and kgf/cm^2, ensuring maximum flexibility for different requirements.

Our digital pressure gauge works with a diffused silicon pressure sensor and offers intelligent calibration and linearity correction functions. The zero point is set quickly and precisely within two seconds using a magnetic pen. This ensures consistently high measuring accuracy and reliability. The response time is just 0.5 seconds, allowing rapid pressure changes to be reliably recorded. The device is equipped with a 3.1 inch LCD display, which is easy to read and has a backlight.

The wetted parts are made of stainless steel, making our digital pressure gauge suitable for air, water and non-aggressive oils. The connection is made via an M20 × 1.5 thread. Overload protection up to 1.2 times the maximum pressure range reliably protects the sensor from short-term pressure peaks.

Specification

Pressure	
Measurement range up to	-0,088 ... +1,6 MPa
Resolution	0,0001 MPa
Accuracy	0.1 % FS
Pressure	
Measurement range up to	-0,88 ... +16 bar
Resolution	0,001 bar
Accuracy	0.1 % FS.
Pressure	
Measurement range up to	-12,8 ... +232,1 psi
Resolution	0,1 psi
Accuracy	0.1 % FS.
Pressure	
Measurement range up to	-88 ... +1600 kPa
Resolution	0,1 kPa
Accuracy	0.1 % FS.
Pressure	
Measurement range up to	-0,9 ... +16,32 kgf/cm²
Resolution	0,01 kgf/cm²
Accuracy	0.1 % FS.
Pressure	
Measurement range up to	-88000 ... +1600000 Pa
Resolution	1 Pa
Accuracy	0.1 % FS.
Pressure	
Measurement range up to	-26 ... +472,5 inHg
Resolution	0,1 inHg
Accuracy	0.1 % FS.
Pressure	
Measurement range up to	-660 ... +12001 mmHg
Resolution	1 mmHg
Accuracy	0.1 % FS.
Pressure	
Measurement range up to	-353 ... +6430 inH_2O
Resolution	1 inH_2O
Accuracy	0.1 % FS.
Pressure	
Measurement range up to	-89,737 ... +1631584 mmH_2O

General technical data	
Outputs	4 ... 20 mA
Units	mmHg, inH_2O, mmH_2O, MPa, bar, psi, kPa, kgf/cm², Pa, inHg
Connections	M20 x 1.5 mm
Display type	LCD
Display size	3,1 Inch
Interface	RS485
Response time	0,5 s
Measured medium	Water, Oil, Air
Housing	Stainless steel
Overload protection	1.2 times overload
Sensors	Silicon pressure sensor
Protection class (device)	IP56
Power supply	100 ... 240 V AC | 50/60 Hz
Connector type	Euro plug
(Rechargeable) battery	1 x 3,6 V internal , Lithium-ion battery
Capacity	2600 mAh
Operating conditions	-10 ... 50 °C , 0 ... 95 % RH
Storage conditions	-20 ... 70 °C , 0 ... 85 % RH
Dimensions (L x W x H)	165 x 112 x 47 mm
Weight	601 g

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Resolution	1 mmH_2O
Accuracy	0.1 % FS.