

PCM590 Digital Pressure Gauge

Features

- Using corrosion-resistant 316 stainless steel pressure port
- Using 304 housing and rich in usage scenarios
- Large 800Nit high-definition LCD display
- Support switching between 11 units
- One-touch reset, backlight, peak value recording, and power on/off
- Ultralow power consumption. 3-segment high-precision power detection
- 2* AAA batteries. Can be used for more than 12 months.
- Ultra-high accuracy, using advanced high-stability international dies

Application

- Mechanical manufacturing
- Instruments support
- Engineering Automation
- Replacement of the traditional pointer pressure gauge
- Various pressure testing devices

Notes:

- 1 Do not misuse the documentation. This document is a data sheet and cannot be used as a product installation guide.
- 2 Complete installation, operation, and maintenance information is provided in the product instruction.
- 3 Do not touch the diaphragm in the pressure hole with hard objects, as this may damage the isolation diaphragm.
- 4 Improper use may result in danger and personal injury.



Overview

The PCM590 digital pressure gauge is a low-power digital pressure product launched by WoTian, which is suitable for a wide range of pressure measurement applications.

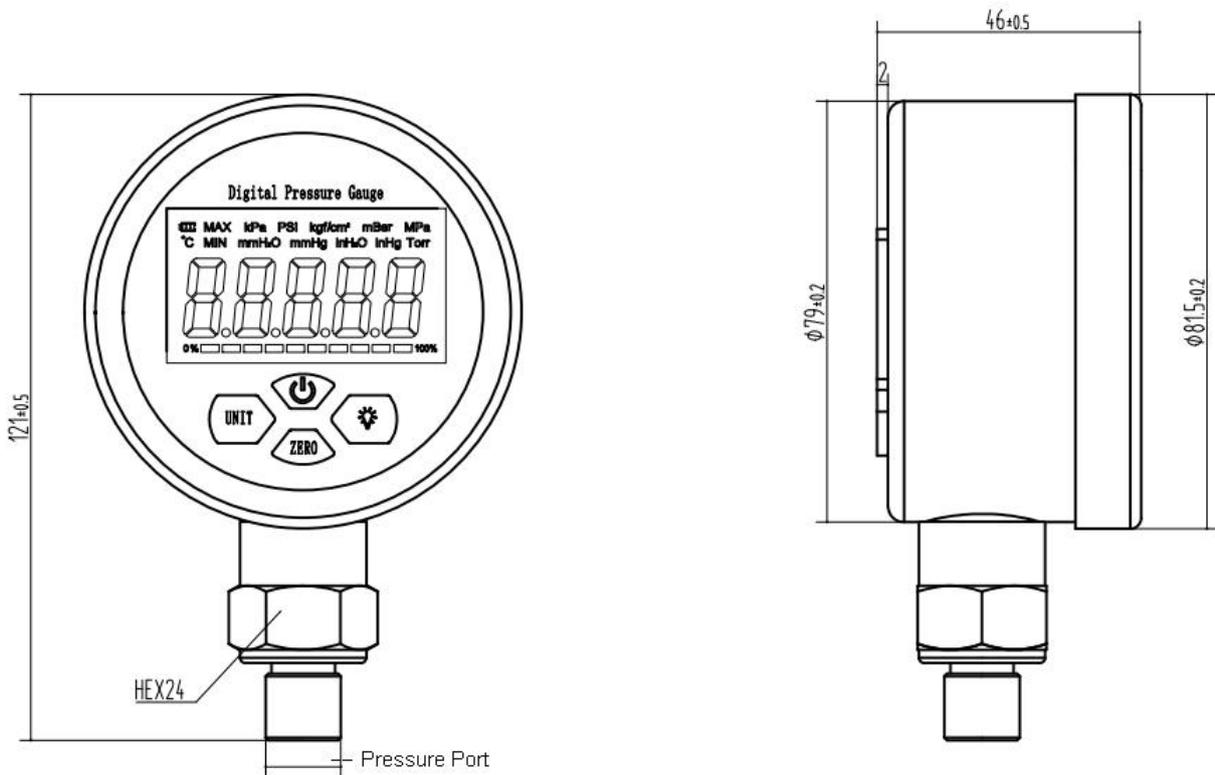
The product is equipped with a high-precision pressure sensor and utilizes a 24-bit high-precision ADC for real-time pressure display, featuring high accuracy and high stability.

PCM590 is also equipped with a large high-definition LCD screen and has multiple functions, such as reset, power on/off, backlight, unit switching, and low-voltage alarm. It is easy to operate and install, which is more user-friendly. It uses a 316L stainless steel pressure port, offering good shock resistance and strong corrosion resistance, and can measure various media, including gases, liquids, and oils.

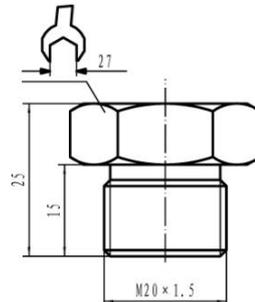
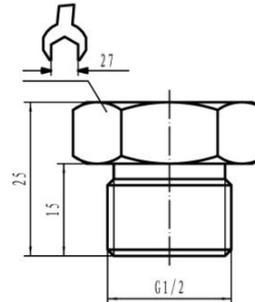
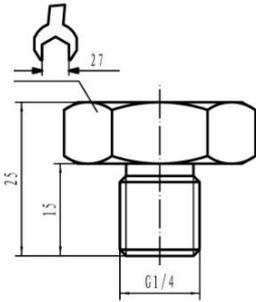
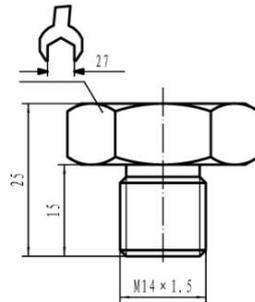
The PCM590 digital pressure gauge is designed for multiple measurement applications, including portable pressure measurement, support for intelligent automation products, and pressure calibration.

Performance parameters	
Pressure range	0~35kPa...25MPa
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure
Power supply	3V (2* AAA batteries)
Operating temp.	-10°C~60°C
Medium temp.	-10°C~60°C
Storage temp.	-40°C~125°C (without battery)
Temp. drift	±1.5%FS (-10°C~60°C, refer to 25±5°C)
Shock	100g (11ms)
Mechanical vibration	10g (10~150Hz)
Comprehensive accuracy	Level 0.5
Long-term stability	±0.2%FS/year
Material	Stainless steel for housing
Medium compatibility	Pressure port: 316; Liquid Contacting Diaphragm: 316L
Pressure unit	MPa, bar, kgf, mH20, PSI, kPa, mmHg, torr, mBAR, cmH20, Pa
Protection Grade	IP50 (IP54 with plastic cover)

Structure & dimension (In mm)



Pressure port

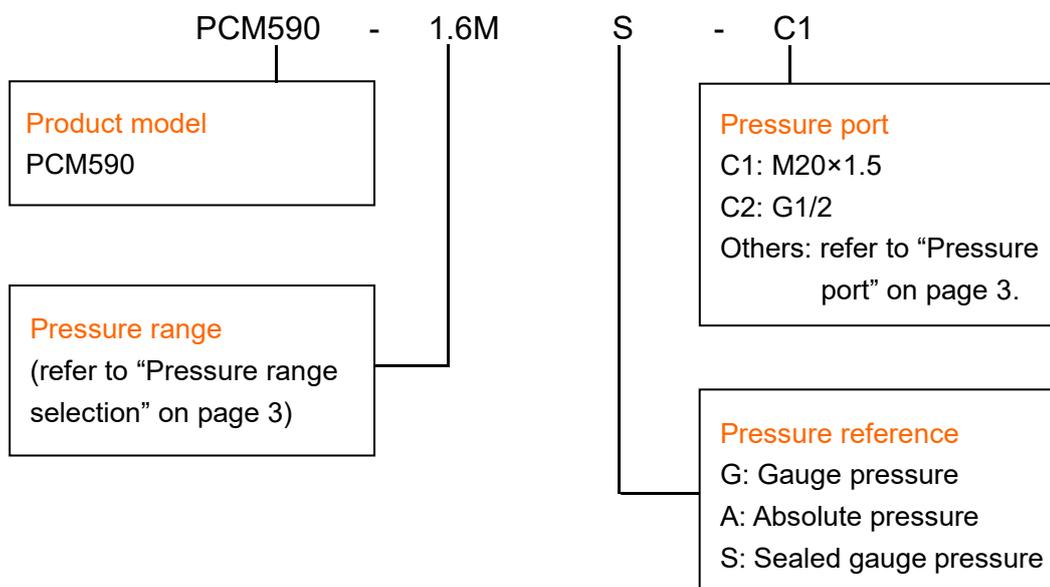
Thread	C1: M20×1.5	C2: G1/2	C3: G1/4	C4: M14×1.5
Dimension In mm				

Pressure range selection

Pressure range code	Pressure reference	Pressure range	Overload pressure	Burst pressure
35k	G	0~35kPa	200%FS	600%FS
100k	A, G	0~100kPa	200%FS	500%FS
600k	A, G	0~600kPa	200%FS	500%FS
1M	A, G	0~1MPa	200%FS	500%FS
1.6M	A, G	0~1.6MPa	200%FS	500%FS
2.5M	A, G	0~2.5MPa	200%FS	500%FS
1.6M	G, S	0~1.6MPa	200%FS	500%FS
2.5M	G, S	0~2.5MPa	200%FS	500%FS
6M	S	0~6MPa	200%FS	400%FS
10M	S	0~10MPa	200%FS	400%FS
16M	S	0~16MPa	150%FS	50MPa
25M	S	0~25MPa	150%FS	50MPa

Note: G: Gauge pressure, A: Absolute pressure, S: Sealed gauge pressure

How to order



Example: PCM590-1.6MSC1

Product model: PCM590, pressure range: 0~1.6MPa, sealed gauge pressure, pressure port: M20×1.5.

Ordering tips

Product selection is divided into four steps: model, pressure range, pressure reference, and pressure port.

Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.

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