

# PCM510 DIGITAL PRESSURE GAUGE

## Features

- 5 digits LCD showing pressure accurately in real time, easy for observation
- Various pressure units, zero clearing, backlight, on/off functions
- 10 units are available:MPa/kPa/psi/BAR/Pa/mBAR/mmHg/mH<sub>2</sub>O/Tor/Ko/en
- low power design,3 AA batteries and can lasts up to 3600 hours

## Application

- Machinery and electronics
- Supporting equipment of instruments
- Pressure laboratory
- Mechanical engineering automation

### Notes:

- 1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.
- 2 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.
- 3 Strictly follow the wiring method for wiring, otherwise it may cause product damage or other potential faults.
- 4 Misuse of the product may cause danger or personal injury.



## Overview

PCM510 is a high-precision digital pressure gauge adopts a 55x55mm large-size LCD screen.It uses a crossover display of the main screen and the sub-screen.It can display the real-time pressure and simultaneously display the reference data such as the on-site temperature and pressure maximum/minimum.

PCM510 is powerful, preset 10 pressure units, adjustable pressure sampling rate, battery power display, the product is equipped with USB external power supply and battery dual power supply mode.

PCM510 is powered by three 5th batteries and features an ultra-low power design for up to 3,600 hours of battery life. The product adopts high-precision ADC and high-speed microprocessor, full digital design, high precision and good stability.

PCM510 is made of 304 stainless steel material, equipped with carrying case and power supply accessory, which is beautiful and practical.

### Notes:

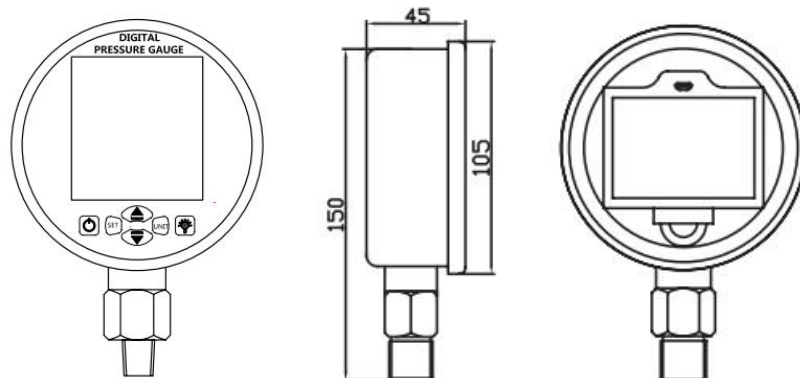
- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

### Performance parameters

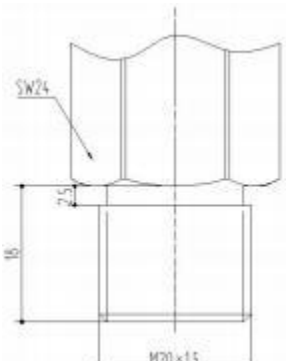
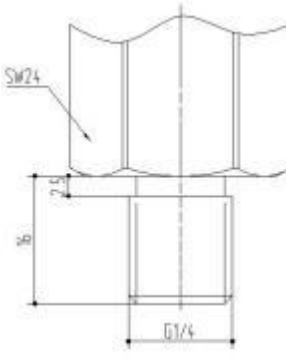
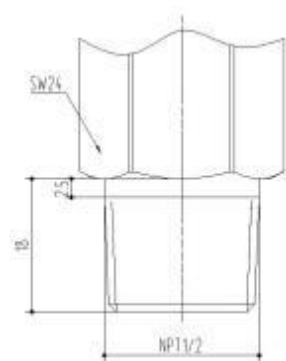
Pressure range	- 100kPa ...0~ 10kPa ... 100MPa
Dial Size	105mm
Accuracy	0.1%FS
Backlight color	White
Operating temp.	- 5~40°C
Compensated temp.	0~40°C
Electrical protection	Anti Electro Magnetic interference
Sampling frequency	1-10 times/second
Overload Capacity	150%(>10MPa);200%(≤10MPa)
Long term stability	±0.1%FS/year (typical)
Connection	M20*1.5 G1/4 G1/2 or 1/4NPT 1/2NPT(customized)
Connection Material	304SS
Shell Material	304SS
Power Supply	3 AA batteries or USB supply
IP rating	IP50(IP54with protection sleeve)

### Structure & dimensions

Dimension  
In mm



### Pressure port

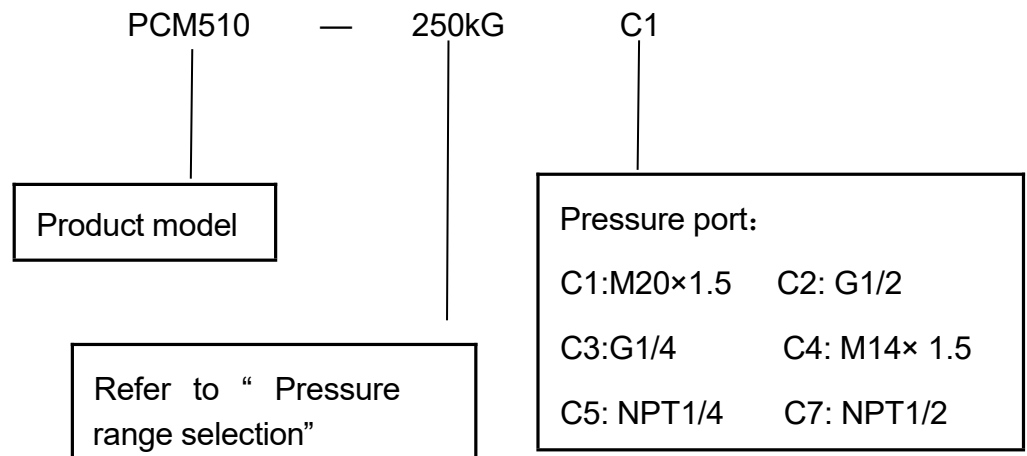
Type	C1: M20× 1.5	C3: G1/4	C7: NPT1/2
Dimension In mm			

Note: Common threads are M20×1.5, G1/4, G1/2, M14×1.5, NPT1/4 and NPT1/2. Special threads can be customized for batch order.

### Pressure range selection

Pressure range code	Pressure reference	Pressure range	Overpressure	Burst pressure	Remark
N1k	G	-100kPa~0	200 % FS	400 % FS	
NP100k	G	±100kPa	200 % FS	500 % FS	
N4k	G	-100~ 160kPa	200 % FS	500 % FS	
N5k	G	-100~250kPa	200 % FS	500 % FS	
N6k	G	-100~400kPa	200 % FS	500 % FS	
N7k	G	-100~600kPa	200 % FS	500 % FS	
N8M	G	-0.1~ 1MPa	200 % FS	500 % FS	
N9M	G	-0.1~ 1.6MPa	200 % FS	500 % FS	
5kG	G	5kPa	200 % FS	500 % FS	
10kG	G	10kPa	300 % FS	600 % FS	
16kG	G	16kPa	300 % FS	600 % FS	
25kG	G	25kPa	300 % FS	600 % FS	
40kG	G	40kPa	300 % FS	600 % FS	
60kG	G	60kPa	300 % FS	600 % FS	
100kG	G	100kPa	200 % FS	500 % FS	
160kG	G	160kPa	200 % FS	500 % FS	
250kG	G	250kPa	200 % FS	500 % FS	
400kG	G	400kPa	200 % FS	500 % FS	
600kG	G	600kPa	200 % FS	500 % FS	
1MG	G	1MPa	200 % FS	500 % FS	
1.6MS	S	1.6MPa	200 % FS	500 % FS	
2.5MS	S	2.5MPa	200 % FS	500 % FS	
4MS	S	4MPa	200 % FS	400 % FS	
6MS	S	6MPa	200 % FS	400 % FS	
10MS	S	10MPa	200 % FS	400 % FS	
16MS	S	16MPa	200 % FS	400 % FS	
25MS	S	25MPa	150 % FS	300 % FS	
40MS	S	40MPa	150 % FS	300 % FS	
60MS	S	60MPa	150 % FS	300 % FS	

Note: G stands for gauge pressure, S, sealed gauge pressure.



Example: PCM510-250kGC1

Refer to product model PCM510, with pressure range 0~250kPa, gauge pressure, and pressure port M20×1.5.

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.

## Contact us

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