

TPG2012-E Digital Pressure Gauge

Features

- 4 digits LCD showing pressure accurately in real time, easy for observation
- Various pressure units, zero clearing, backlight, on/off functions
- Battery powered, low-power design, keeping working for 12 months
- High-precision pressure sensor adopted

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

TPG2012-E is a high-precision intelligent digital pressure gauge. It has a high-precision sensor and displays pressure accurately in real time. It has advantages of high precision and good long term stability.

TPG2012-E is equipped with a large size LCD, featuring with functions of zero clearing, backlight, on/off button, units switching and low pressure alarm. It is convenient to install and easy to operate.

The housing and connector of TPG2012-E are made of stainless steel 304 with excellent vibration resistance. It can be used to measure gas, liquid, oil and other non-corrosive medium of stainless steel.

TPG2012-E is applicable to portable pressure measurement and equipment supporting and calibration fields.

Notes:

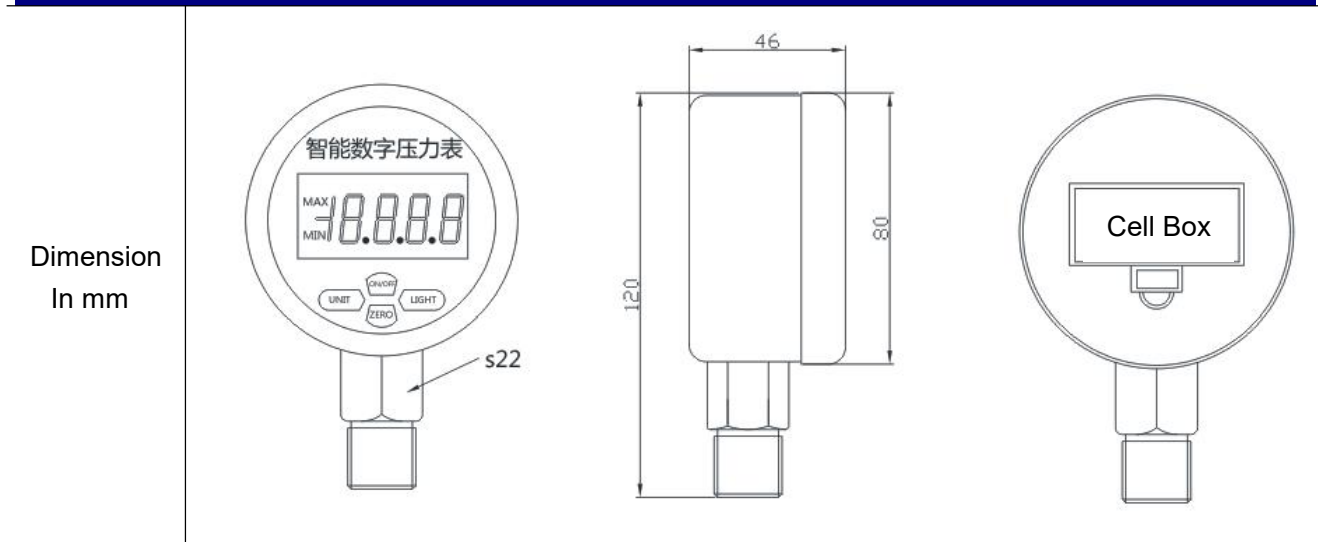
- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product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

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Performance parameters

Pressure range	-100kPa...0~10kPa...100MPa
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure
Accuracy	0.5%FS
Backlight color	Blue
Operating temp.	-10~70°C
Compensated temp.	0~60°C
Electric protection	Anti electromagnetic interference design
Sampling frequency	5/sec
Overpressure	150%FS
Long term stability	±0.2%FS/year (typical)
Supply battery	2 Triple A batteries
Material	Stainless steel for shell, 316L for isolation diaphragm
Medium compatibility	All media compatible with stainless steel 316

Structure & dimensions



Pressure port

Type	C1: M20×1.5	C3: G1/4	C7: NPT1/2
Dimension In mm	<p>Technical drawing of pressure port C1: M20×1.5. It shows a cross-section of the port with a diameter of 20 mm and a thread pitch of 1.5 mm. The height of the port is 18 mm. A SW24 wrench is shown for reference. The drawing is labeled 'M20×1.5'.</p>	<p>Technical drawing of pressure port C3: G1/4. It shows a cross-section of the port with a diameter of 16 mm. The height of the port is 16 mm. A SW24 wrench is shown for reference. The drawing is labeled 'G1/4'.</p>	<p>Technical drawing of pressure port C7: NPT1/2. It shows a cross-section of the port with a diameter of 20 mm. The height of the port is 18 mm. A SW24 wrench is shown for reference. The drawing is labeled 'NPT1/2'.</p>

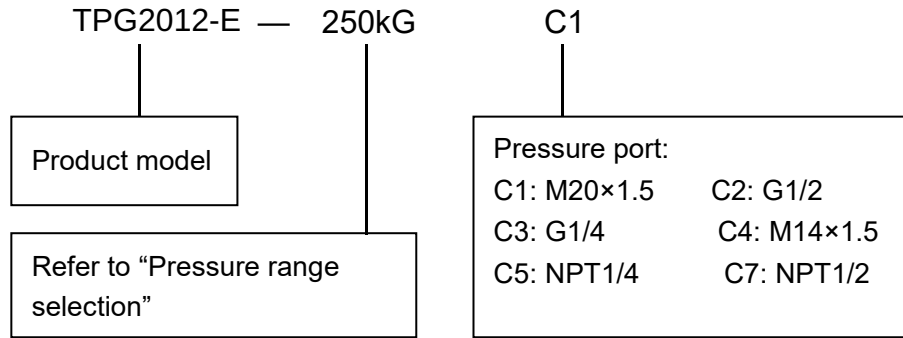
Note: Common threads are M20×1.5, G1/4, G1/2, M14×1.5, NPT1/4 and NPT1/2. Special threads can be customized for batch order.

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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	
100MS	S	100MPa	150%FS	300%FS	

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



Example: TPG2012-E -250kGC1

Refer to product model TPG2012-E with pressure range 0~250kPa, gauge pressure, and pressure port M20×1.5.

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