

JC480 Intelligent Digital Pressure Gauge

Application

- Equipment automation
- Medical equipment
- Energy and heat supply
- Pressure laboratory
- Hydraulic and pneumatic systems
- Water treatment system
- Acquisition, storage and analysis of wellhead pressure data in oil fields and gas fields
- City water network, natural gas network pressure data collection, storage, analysis
- Laboratory digital communication collects pressure, and realizes data storage and processing on a computer
- Portable pressure measurement, equipment supporting, calibration equipment and other pressure measurement fields
- Engineering machinery
- Pump and compressor
- Instrumentation
- Mechanical electronics industry
- Replace pointer precision pressure gauge



Product Features

- Zero error can be cleared with one click
- 4-digit LCD screen displays pressure in real time
- Battery-powered, low-power design can last up to 12-24 months
- With maximum and minimum record function, used as peak record
- Wide measuring range: from vacuum to 160MPa, display range when starting
- Wide operating temperature range, high comprehensive measurement accuracy, and good long-term stability
- The pressure value can be collected and stored regularly. The collection frequency can be set from 1 second to 9999 seconds.
- 304 stainless steel dial with an outer diameter of 80mm. Choice of axial and radial installation
- Instead of pointer precision pressure gauge, it can be used as standard pressure gauge for checking pressure products and equipment
- Excellent corrosion resistance, impact resistance, and overload, vibration and wear resistance
- One-button switching of 11 units: MPa, bar, kgf / cm², psi, kPa, mHzO, mmHg, mbar, mmH₂O, Pa, torr
- Can store up to 10,000 pieces of data
- USB data export function, supporting reading software
- With percentage scale, visual display of current pressure percentage

Product Description

JC480 Intelligent digital pressure gauge is specially designed for high-end supporting customers with high standards. It uses ultra-high-precision and stable pressure sensors. It is a high-precision low-power intelligent pressure measuring instrument.

JC480 is equipped with a large-size LCD liquid crystal display with Dial 80mm. It has various functions such as zero reset, backlight, power on / off, unit switching, low-voltage alarm, etc. It is easy to operate and easy to install. Support optional timing acquisition data storage, support USB data export, can store up to 10,000 pieces of data. Currently passed CE 、CPA 、Ex explosion and RoHS certifications.

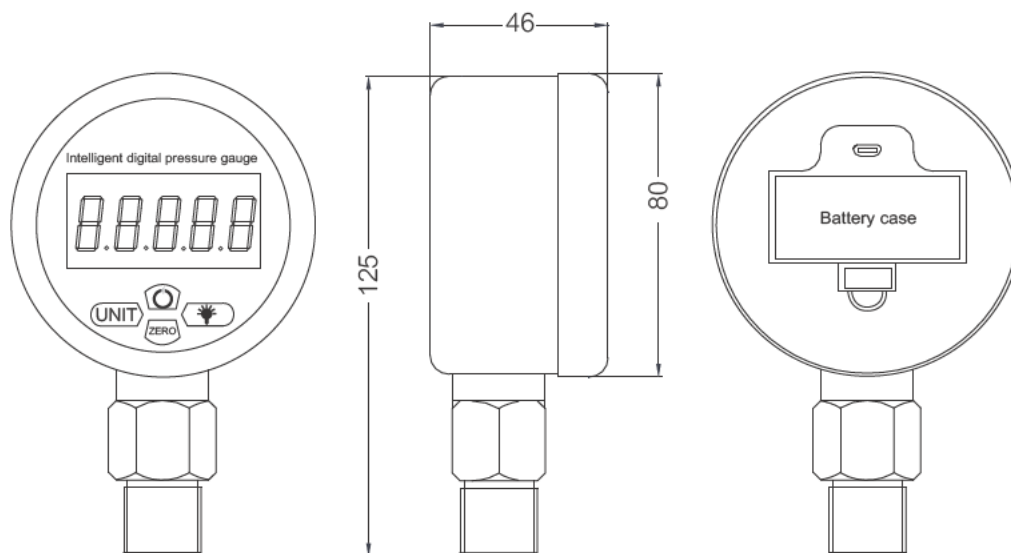
JC480 is a high-precision pressure gauge with integrated pressure measurement and display. It has the characteristics of anti-vibration, high display accuracy, high stability, clearable, and automatic standby. Powered by battery. Due to the low-power processor chip, it has a long battery life. With automatic standby and one-click reset functions. It is easy to use and can replace mechanical pressure gauges for portable pressure measurement, equipment matching, and standard pressure calibration. Inspection equipment and other fields.

Performance Parameter

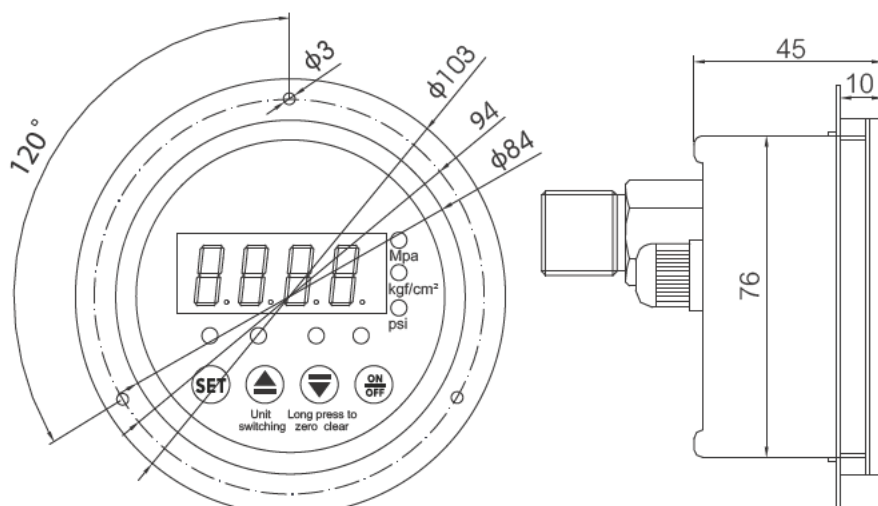
Measuring Range	Micro pressure range: 6kPa...10kPa...25kPa Medium pressure range: 0.4MPa...0.6MPa...4MPa High pressure range: 6MPa...10MPa...25MPa Ultra high pressure range: 40MPa...60MPa...160MPa	Composite pressure range: -5kPa ~5kPa...10kPa...100kPa ~1000kPa Absolute pressure range: 0~100kPa...250kPa...1000kPa Differential pressure range: 0~10kPa...25...40...60...100...250...400...600kPa 0~1...1.6MPa
Overload Capability	1.5 times full-scale pressure (1.1 times full-scale pressure for ≥100MPa) Diaphragm differential pressure 200%(Positive overpressure); 100%(Negative overpressure); Single crystal silicon differential pressure 16MPa	
Pressure Type	Gauge pressure, Differential pressure, Absolute Pressure	
Measuring Medium	Gas or liquid compatible with 316 or 304 stainless steel	
Accuracy	±0.2%FS ±0.4%FS	
Long-term Stability	Typical: ±0.2%FS	
Working Temperature	-10 ~ 70℃ (High temperature can be customized)	
Power Supply	2-AA batteries, 24VDC, 220VAC, 380VAC (customized)	
Power Consumption	<0.005W Battery	
Dimension	Diameter 80mm, Thickness 48mm	
Back Light	White backlight	
Power Display	Four-segment display	
Display Digits	4-LCD display	
Electromagnetic Compatibility	Anti-electromagnetic interference design, in accordance with EN61326 standard	
Data Memory	Permanent EEPROM, S option	
Shell protection	IP50(IP54+protective cover)	
Weight	Approx.0.3kg	
Interface and Housing	304 stainless steel	
Installation Interface	M20*1.5male G1/4male NPT1/4male	
Battery replacement	The battery is usually replaced every 12~24 months (based on actual power consumption)	
Features	1. Power on / off 2. One-click reset 3. Maximum and minimum recording function 4. Backlight 5. Unit switching	
Certificate	CE CPA RoHS Intrinsically Explosion-proof (Optional)	

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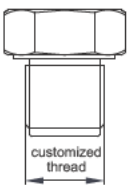
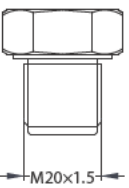
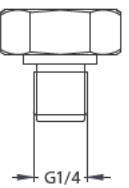
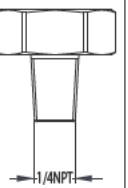
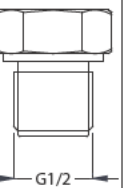
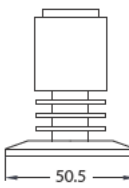
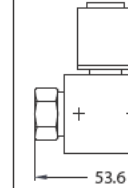
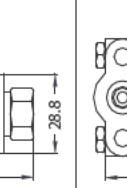
Dimension Drawing : Unit mm



RADIAL



AXIAL

Thread Option							
							
customized thread	M20x1.5	G1/4	1/4NPT	G1/2	50.5	53.6	73.6

Pressure measuring end structure is different for special thread/range/application

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Ordering Information

Model : JC480		
Technical Parameter	Code	Description
Pressure Type	G	Gauge Pressure、 Negative pressure
	A	Absolute pressure
	D	Differential Pressure
Pressure Range		0~ X E.g 0~1MPa
Accuracy	1	±0.4%FS
	2	±0.2%FS
Power Supply	V1	Battery
	V2	24VDC
	V3	220VAC
Dial Size	D2	80mm
Pressure Connection	F1	M20x1.5 male thread
	F2	G1/4 male thread
	F0	Customized
Installation Structure	J	Radial installation (default)
	Z	Axial installation(Power supply)
Additional Selection	S	With recording function
	P	Flush film manometer structure
	R	Anti-corrosion
	E	Intrinsically Explosion-proof
	T	Customized

Model selection example: **JC480G (0~1MPa) -1 -V2-D2-F2-J-S**

Parameter description: JC480 Intelligent digital pressure gauge; Range: 0-1MPa gauge type;Accuracy: 0.5%FS; Power Supply: 24VDC ;Dial Dimensions: 80mm; Pressure connection: G1/4male thread; Installation: Radial installation; With recording function.

Selection tips:

1. Axial installation requires power supply such as 24VDC
2. The Measuring Medium should be compatible with the product materials in contact.
3. There may be unsupported product options, please consult the engineer
4. Battery-powered products are LCD, no signal output option
5. For other special requirements, please consult with the company and indicate in the order

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