

Main Specifications

▼ **Size**
3.7"
Thickness: 41mm

▼ **Pressure connection**
Material: SS316
Laser welding
Size: 1/2" PT
Other thread type available upon request

▼ **Pressure range**
Please refer to pressure range and accuracy table

▼ **Applicable media**
Liquid and gas that compatible with SS 316 /
Pure, non-corrosive gas

▼ **Ambient temperature**
-20°C to +70°C

▼ **Storage temperature**
-40°C to +85°C

▼ **Media temperature**
-10°C to +50°C

▼ **Ambient humidity**
95% R.H.

▼ **Atmospheric pressure**
860...1060 mbar

▼ **Temperature drift**
Standard temp.: 20°C
max. error: ±0.1% F.S (@0~50°C)

▼ **Accessory**
Power Supply

Other Specifications

▼ **Ring**
Aluminum die casting

▼ **Case**
Aluminum die casting

▼ **Screen display**
5-digit LCD (0.1%/0.2%)
6-digit LCD (0.02%/0.05%)
White backlight

▼ **Refresh rate**
Adjustable refresh rate:
3 times/1sec to 1 times/10secs

▼ **Screen size**
58 (W) x 29 (H) mm

▼ **Pressure unit**
mmH₂O, mmHg, kgf , kPa, MPa, psi, bar, mbar

▼ **Resolution**
0.0001

▼ **Communication port (option)**
RS232

▼ **Measuring elements**
High-tech silicon chip
SS 316L diaphragm

▼ **Accuracy**
Please refer to pressure range and accuracy table

▼ **Overpressure**
Please refer to pressure range and accuracy table

▼ **Compensated temperature**
0°C to 50°C

▼ **Power supply**
AA batteries x3 /
DC 9V (2A)

▼ **Battery life**
Please refer to battery life table

▼ **Weight**
450g

Digital Precision Pressure Gauge

Model: AT803

Introduction

The accuracy of AT803 digital precision pressure gauge can up to 0.02%, which is suitable for high precision pressure measurement such as field and laboratory pressure measurement and calibration.



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

Features

- OEM service
- High accuracy - up to 0.02%
- 5- or 6-digit LCD display with backlight
- Zero adjustment button
- Low power consumption - continually operate over 10000 hours
- Large display screen 58 x 29 mm
- Switchable pressure units: mmH₂O, mmHg, kgf , kPa, MPa, psi, bar, mbar

Applicable media table

Pressure range	Media
< 2.5 bar	Pure, non-corrosive gases
> 4 bar	Liquid and gas that compatible with SS 316

Battery life table

Refresh rate	3times/1sec	1times/1sec	1times/2secs	1times/5secs	1times/10secs
Battery life	3 months	1 year	2 years	4 years	6 years

Pressure Range and Accuracy Table

Code	Pressure range*1	Accuracy (@20±5°C)	Accuracy (0 to 50°C)	Accuracy (0 to 50°C) (Absolute pressure)	Media	Overpressure
P1	-100...0kPa	—	0.05, G	—	Gas	3*F.S.
P2	0...16kPa	—	0.05, G	—	Gas	3*F.S.
P3	0...25kPa	0.02, G	0.05, G	—	Gas	3*F.S.
P4	0...40kPa	0.02, G	0.05, G	—	Gas	3*F.S.
P5	0...60kPa	0.02, G	0.05, G	0.1, A	Gas	3*F.S.
P6	0...100kPa	0.02, G	0.05, G	0.05, A	Gas	3*F.S.
P7	0...160kPa	0.02, G	0.05, G	0.05, A	Gas	3*F.S.
P8	0...250kPa	0.02, G	0.05, G	0.05, A	Gas	3*F.S.
P9	0...400kPa	0.02, G	0.05, G	0.05, A	Gas/Liquid	3*F.S.
P10	0...600kPa	0.02, G	0.05, G	0.05, A	Gas/Liquid	3*F.S.
P11	0...1MPa	0.02, G	0.05, G	0.05, A	Gas/Liquid	3*F.S.
P12	0...1.6MPa	0.02, G	0.05, G	0.05, A	Gas/Liquid	3*F.S.
P13	0...2.5MPa	0.02, G	0.05, G	0.05, A	Gas/Liquid	3*F.S.
P14	0...4MPa	0.02, G	0.05, G	0.05, A	Gas/Liquid	3*F.S.
P15	0...6MPa	0.02, G	0.05, G	0.05, A	Gas/Liquid	3*F.S.
P16	0...10MPa	0.02, SG	0.05, SG	0.05, A	Gas/Liquid	3*F.S.
P17	0...16MPa	0.02, SG	0.05, SG	0.05, A	Gas/Liquid	3*F.S.
P18	0...25MPa	0.02, SG	0.05, SG	0.05, A	Gas/Liquid	3*F.S.
P19	0...40MPa	0.02, SG	0.05, SG	0.05, A	Gas/Liquid	3*F.S.
P20	0...60MPa	0.02, SG	0.05, SG	0.05, A	Gas/Liquid	3*F.S.
P21	0...100MPa	—	0.1/0.2, SG	—	Gas/Liquid	2*F.S.
P22	0...160MPa	—	0.1/0.2, SG	—	Gas/Liquid	2*F.S.
P23	0...250MPa	—	0.1/0.2, SG	—	Gas/Liquid	1.5*F.S.

Note:

G=Gauge pressure ; SG= Sealed gauge pressure A= Absolute pressure

Compound Pressure Range (Micro Pressure) and Accuracy Table

Code	Compound pressure range	Accuracy (@20±5°C)	Accuracy (0 to 50°C)	Media	Overpressure
CP1	± 16kPa	—	0.05	Gas	3*F.S.
CP2	± 25kPa	—	0.05	Gas	3*F.S.
CP3	± 40kPa	0.02	0.05	Gas	3*F.S.
CP4	± 60kPa	0.02	0.05	Gas	3*F.S.
CP5	± 100kPa	0.02	0.05	Gas	3*F.S.
CP6	-100...0 to 160kPa	0.02	0.05	Gas	3*F.S.
CP7	-100...0 to 250kPa	0.02	0.05	Gas	3*F.S.

How to order

AT803		Digital Precision Pressure Gauge	
Code	Pressure connection		
4P	1/2" PT		
O	Other (please specify)		
Code	Pressure range		
P11	Please refer to Pressure/Compound Pressure Range and Accuracy Table and select corresponding code		
Code	Screen display		
5	5-digit with backlight		
6	6-digit with backlight		
Code	Other requests		
/A	Third party notarized document		
/B	Inspection report (issued by Re-Atlantis)		
/C	Tag		
/D	Install a diaphragm seal		
/E	Customized dial face (brand, color, etc.)		
/F	Thread adaptor: to adapt the other kind of threads		
/G	RS232 communication port		

AT803	4P	P11	5	Order example: AT803-4P-P11-5
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