

**Main Specifications**

▼ **Size**  
3.5"  
Thickness: 41mm

▼ **Pressure connection**  
Material: SS316L  
Laser welding  
Size: 1/2" PT  
Other thread type available upon request

▼ **Pressure range**  
-0.1~250MPa  
Please refer to pressure range and accuracy table

▼ **Applicable media**  
Liquids compatible with the connecting section and non-corrosive gases

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

▼ **Storage temperature**  
-40°C to +85°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**  
6-digit LCD  
White backlight

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

▼ **Screen size**  
58 (W) x 28 (H) mm

▼ **Pressure unit**  
mmH<sub>2</sub>O, mmHg, kgf, kPa, MPa, psi, bar, mbar, Pa, inH<sub>2</sub>O  
<Select units based on different ranges>

▼ **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 12V (1A)

▼ **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%F.S.
- 6-digit LCD display with backlight
- Zero adjustment button
- Low power consumption - continually operate over 10000 hours
- Large display screen 58 x 28 mm
- Switching between multiple pressure units

**Battery life table**

Refresh rate	10times/ 1sec	3times/ 1sec	2times/ 1secs	1times/ 1secs	1times/ 2secs	1times/ 4secs	1times/ 6secs	1times/ 10secs
Battery life	300 Hours	600 Hours	8000 Hours	9000 Hours	10000 Hours	15000 Hours	2 years	3 years

Pressure Range and Accuracy Table

Code	Pressure range	Accuracy (Standard)	Accuracy (Option)	Media	Overpressure
P1	-100~0kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P2	0~16kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P3	0~25kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P4	0~40kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P5	0~60kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P6	0~100kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P7	0~160kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P8	0~250kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P9	0~400kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P10	0~600kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P11	0~1MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P12	0~1.6MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P13	0~2.5MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P14	0~4MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P15	0~6MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P16	0~10MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P17	0~16MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P18	0~25MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P19	0~40MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
P20	0~60MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	2*F.S.
P21	0~100MPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	1.5*F.S.
P22	0~160MPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	1.5*F.S.
P23	0~250MPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	1.2*F.S.

Compound Pressure Range and Accuracy Table

Code	Compound pressure range	Accuracy (Standard)	Accuracy (Option)	Media	Overpressure
CP1	±16kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP2	±25kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP3	±40kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP4	±60kPa	±0.05%	±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP5	±100kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP6	-100~160kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP7	-100~250kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP8	-100~400kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP9	-100~600kPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP10	-0.1~1MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP11	-0.1~1.6MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.
CP12	-0.1~2.5MPa	±0.02%	±0.05% , ±0.1% , ±0.2%	Gas/Liquid	3*F.S.

### Micro Pressure and Accuracy Table

Code	Compound pressure range	Accuracy (Standard)	Accuracy (Option)	Media	Overpressure
MP1	± 500Pa	± 0.2%	—	Gas	3*F.S.
MP2	± 1kPa	± 0.05%	± 0.1% , ± 0.2%	Gas	3*F.S.
MP3	± 2kPa	± 0.05%	± 0.1% , ± 0.2%	Gas	3*F.S.
MP4	± 5kPa	± 0.05%	± 0.1% , ± 0.2%	Gas	3*F.S.
MP5	± 10kPa	± 0.02%	± 0.05% , ± 0.1% , ± 0.2%	Gas	3*F.S.

### How to order

AT803 Digital Precision Pressure Gauge										
Std.	Spec.	Code	Item	Code	Item	Code	Item	Code	Item	
4P	Pressure connection	4P	1/2" PT	0	Others (please specify)	—	—	—	—	
Custom	Pressure range	Please refer to Pressure/Compound Pressure Range and Accuracy Table and select corresponding code								
1	Accuracy	1	Standard	2	± 0.05%F.S.	3	± 0.1%F.S.	—	± 0.2%F.S.	
/B	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							

Order example: AT803 - 4P - (P11) - 1 - /B