

Main Specifications

▼ **Type**
General / Data logging / Intrinsically safety explosion-proof type

▼ **Dimension**
Ø110 x 35 (D) x 176 (H) mm

▼ **Window**
Tempered glass

▼ **Pressure connection**
Material : SS 316L
Laser beam welding
1/4" NPT, 1/2" NPT, 1/4" BSPT, 1/2" BSPT, M20 x 1.5, 1/4" HP female, 1/4" HP male

▼ **Pressure range**
Please refer to pressure range ordering table

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

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

▼ **Fluid temperature**
-10°C to +60°C

▼ **Storage temperature**
-20°C to 70°C

▼ **Ambient humidity**
< 95% R.H.

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

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

▼ **Vibration resistance**
Vibration: 5g (20-2000Hz)
Shock: 100g/11ms

▼ **Protection level**
IP64

▼ **Explosion-proof class**
Ex ia IIC T4 Ga
(for ex-proof type only)

Other Specifications

▼ **Ring**
Aluminum alloy

▼ **Case**
ABS

▼ **Main screen display**
5-digit 0.65" LCD display
Blue backlight
Peak pressure value record
Switchable pressure unit

▼ **Sector screen display**
Switchable display function, display as analogue pointer
Function: swing / % / H-L Alarm

▼ **Refresh rate**
3 times/sec (default)
Fastest: 10 times/sec
Slowest: 1 times/6secs

▼ **Screen size**
67 (W) x 33 (H) mm

▼ **Pressure unit**
Pa, kPa, MPa, psi, bar, mbar, kgf/cm², inH₂O, mmH₂O, inHg, mmHg

▼ **Resolution**
0.0001

▼ **Data logging (Only available for data logging type)**
Data storage: 21,843 records (each logging includes date, time, pressure, temperature)

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

▼ **Communication port (option)**
RS232

▼ **Accuracy**
Pressure: 0.02% F.S./ 0.05% F.S./0.1% F.S./0.2% F.S.
Temperature: ±2°C

▼ **Operating pressure**
Please refer to pressure range ordering table

▼ **Compensated temperature**
-10°C to 50°C

▼ **Power supply**
9V Alkaline battery
AC adaptor
Auto power off setting: auto power off after 60 minutes

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

▼ **Weight**
600g

Digital Precision Pressure Gauge

Model: AT211H

Introduction

AT211H digital pressure gauge with accuracy 0.02%, which is suitable to calibrate general and precision pressure gauge or blood pressure monitor. AT211H is an ideal choice to absolutely replace mechanical pressure gauge.



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

- Laser welded connection
- High accuracy - up to 0.02%
- Auto temperature compensation
- Maximum pressure range up to 250 MPa
- Pressure value showed in sector screen as percentage (%) display
- Display flash warning when pressure over 120% F.S.
- Adjustable refresh rate: fastest - 10 times/sec
- Data logging and intrinsically safety explosion-proof function (option)

Pressure range ordering table

Gauge pressure

Pressure range	Accuracy (% F.S.)	Media	Burst pressure	Code
0~16kPa	0.05/0.1/0.2	Gas	3*F.S.	G1
0~25kPa	0.05/0.1/0.2	Gas	3*F.S.	G2
0~40kPa	0.05/0.1/0.2	Gas	3*F.S.	G3
0~60kPa	0.05/0.1/0.2	Gas	3*F.S.	G4
0~100kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	G5
0~160kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	G6
0~250kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	G7
0~400kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	G8
0~600kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	G9
0~1MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	G10
0~1.6MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	G11
0~2.5MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	G12
0~4MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	G13
0~6MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	G14
0~10MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	G15
0~16MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	G16
0~25MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	G17
0~40MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	G18
0~60MPa	0.02/0.05/0.1/0.2	Gas, Liquid	2*F.S.	G19
0~100MPa	0.05/0.1/0.2	Gas, Liquid	1.5*F.S.	G20
0~160MPa	0.1/0.2	Gas, Liquid	1.5*F.S.	G21
0~250MPa	0.1/0.2	Gas, Liquid	1.2*F.S.	G22

Vacuum pressure

Pressure range	Accuracy (% F.S.)	Media	Burst pressure	Code
-100~0kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	V1

Differential pressure

Pressure range	Accuracy (% F.S.)	Media	Burst pressure	Static pressure	Code
± 250Pa	0.1	Gas	50*F.S.	60kPa	D1
± 500Pa	0.1	Gas	50*F.S.	60kPa	D2
± 1kPa	0.05	Gas	50*F.S.	60kPa	D3
± 2.5kPa	0.05	Gas	20*F.S.	60kPa	D4
± 5kPa	0.02/0.05	Gas	10*F.S.	60kPa	D5
± 10kPa	0.02/0.05/0.1/0.2	Gas	5*F.S.	60kPa	D6
± 16kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	60kPa	D7
± 25kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	300kPa	D8
± 40kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	300kPa	D9
± 60kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	300kPa	D10

Compound pressure

Pressure range	Accuracy (% F.S.)	Media	Burst pressure	Code
± 16kPa	0.05/0.1/0.2	Gas	3*F.S.	C1
± 25kPa	0.05/0.1/0.2	Gas	3*F.S.	C2
± 40kPa	0.05/0.1/0.2	Gas	3*F.S.	C3
± 60kPa	0.05/0.1/0.2	Gas	3*F.S.	C4
± 100kPa	0.02/0.05/0.1/0.2	Gas	3*F.S.	C5
-100~160kpa	0.02/0.05/0.1/0.2	Gas	3*F.S.	C6
-100~250kpa	0.02/0.05/0.1/0.2	Gas	3*F.S.	C7
-100~400kpa	0.02/0.05/0.1/0.2	Gas	3*F.S.	C8
-100~600kpa	0.02/0.05/0.1/0.2	Gas	3*F.S.	C9
-0.1~1MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	C10
-0.1~1.6MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	C11
-0.1~2.5MPa	0.02/0.05/0.1/0.2	Gas, Liquid	3*F.S.	C12

Absolute pressure

Pressure range	Accuracy (% F.S.)	Medium	Burst pressure	Code
0~40kpa	0.1/0.2	Gas	3*F.S.	A1
0~60kpa	0.1/0.2	Gas	3*F.S.	A2
0~110kpa	0.1/0.2	Gas	3*F.S.	A3
0~160kpa	0.05% (0.1/0.2)	Gas	3*F.S.	A4
0~250kpa	0.05% (0.1/0.2)	Gas	3*F.S.	A5
0~400kpa	0.05% (0.1/0.2)	Gas	3*F.S.	A6
0~600kpa	0.05% (0.1/0.2)	Gas	3*F.S.	A7
0~1MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A8
0~1.6MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A9
0~2.5MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A10
0~4MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A11
0~6MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A12
0~10MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A13
0~16MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A14
0~25MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A15
0~40MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A16
0~60MPa	0.05% (0.1/0.2)	Gas, Liquid	3*F.S.	A17

Note:

- (1) Temperature compensation range: -10~50°C
- (2) Absolute pressure accuracy 0.05% (stability for half year)
- (3) Corrosive liquid and gas are not measurable for AT211H

Pressure range and applicable medium

Pressure range	Medium
< 250kpa	Pure, non-corrosive gases
> 400kpa	Liquid and gas that compatible with SS316L

Battery life

Refresh rate	10times/1sec	3times/1sec	2times/1sec	1times/1sec	1times/2secs	1times/5secs	1times/6secs
Battery life	300hr	600hr	800hr	1500hr	2000hr	4000hr	5000hr

How to order

AT211H		Digital Precision Pressure Gauge			
	Code	Type			
	A	General			
	B	Data logging			
	C	Explosion-proof			
	Code	Pressure connection			
	2N	1/4" NPT male			
	2P	1/4" BSPT male			
	4N	1/2" NPT male			
	4P	1/2" BSPT male			
	M	M20x1.5			
	2HF	1/4" HP female			
	2HM	1/4" HP male			
	O	Others (please specify)			
	Code	Pressure range			
	G1	Please refer to pressure range ordering table and select corresponding code			
	Code	Accuracy			
	1	0.02%F.S.			
	2	0.05%F.S.			
	3	0.1%F.S.			
	4	0.2%F.S.			
	Code	Other requests:			
	/A	Third party notarized document			
	/B	Inspection report (issued by Re-Atlantis)			
	/C	Tag			
	/D	Back panel mount type			
	/E	Install a diaphragm seal			
	/F	Protection level IP67			
	/G	USB to RS232 adaptor			
	/H	Protective rubber case			
	/I	Portable carrying case			
	/J	External power adaptor			
AT211H	A	2N	G1	1	Ordering example: AT211H-A-2N-G1-1+/I+/J