

Main specifications	Other Specifications
<p>▼ <b>Pressure type</b></p> <p>Gauge pressure Compound pressure Absolute pressure</p> <p>▼ <b>Process connection</b></p> <p>Material: SS316 / SS304 / Hastelloy C</p> <p>Connection type: M20 x 1.5* / G1/2" * 1/2" NPT Clamp connection (measurement range ≤ 1MPa)</p> <p>*For inner hole please refer to how to order table</p> <p>▼ <b>Pressure range</b></p> <p>Please refer to pressure type and pressure range table</p> <p>▼ <b>Applicable fluid</b></p> <p>Gas and liquid that compatible with stainless steel</p> <p>▼ <b>Operating temperature</b></p> <p>-40~+85°C</p> <p>▼ <b>Protection level</b></p> <p>IP65</p> <p>▼ <b>Proof design (Option)</b></p> <p>Explosion-proof level: Exd II CT5 (*1) Flameproof level: Exd II BT5 Anti-impact design Lightning-proof class anti surge</p>	<p>▼ <b>Housing material</b></p> <p>Stainless steel</p> <p>▼ <b>Diaphragm material</b></p> <p>Silicon chip / Piezoresistive ceramic / Ceramic capacitor / silicon-on-sapphire (*2)</p> <p>▼ <b>Power supply</b></p> <p>15~36VDC</p> <p>▼ <b>Output signal</b></p> <p>4~20mA Option: 4~20mA + HART communication protocol</p> <p>▼ <b>Screen display (Option)</b></p> <p>4-digit LCD display (Pressure value, scale percentage, output current) For more information please refer to how to order table</p> <p>▼ <b>Accuracy</b></p> <p>0.1% (*3)/0.2%/0.5%F.S.</p> <p>▼ <b>Stability</b></p> <p>&lt;0.1%F.S./year</p> <p>▼ <b>Temperature drift</b></p> <p>&lt;±0.01%F.S./°C (Option: 0.005%F.S./°C)</p> <p>▼ <b>Compensated temperature</b></p> <p>-10~+70°C</p> <p>▼ <b>Operating pressure</b></p> <p>2~20*F.S.</p> <p>▼ <b>Other requests (Option)</b></p> <p>Third party notarized documents Inspection report Tag</p>

# Intelligent Pressure Transmitter

## Model: AT-PT186

### Introduction

AT-PT186 intelligent pressure transmitter adopts high accuracy and stability pressure sensor. With 4-20mA standard analog output, it is suitable for high accuracy pressure measurement in industrial environment. The signal is processed by low power consumption microprocessor and high accuracy A/D and D/A.



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.)

### Pressure type and pressure range table

Pressure type	Pressure range
Gauge pressure	0~100Pa to 100MPa
Compound pressure	-50~50Pa; -1~0 to 40MPa
Absolute pressure	0~10kPa to 40MPa

### Features

- OEM service
- Adjustable zero and span
- With reverse polarity protection and current limit protection
- Accuracy up to 0.1%
- Various options of display (Option)
- HART communication available (option)

(\*1): For explosion-proof class product, the display module can only select 0~100% linear indicator.

Note: For explosion-proof class product, do not open the case when power is on.

(\*2): Silicon-on-sapphire diaphragm can only select Φ3mm inner hole connection.

(\*3): To achieve 0.1% accuracy, adopt high stability silicon chip or ceramic capacitor as diaphragm material is required.

## How to order

AT-PT186		Intelligent Pressure Transmitter						
Code	Diaphragm material							
S	Silicon chip							
PC	Piezoresistive ceramic							
CC	Ceramic capacitor							
SA	Silicon-on-sapphire (*2)							
Code	Process connection material							
A	SS316							
B	SS304							
C	Hastelloy C							
Code	Process connection type							
1	M20 x 1.5 (inner hole $\Phi$ 3mm)							
2	M20 x 1.5 (inner hole $\Phi$ 10mm)							
3	G1/2" (inner hole $\Phi$ 3mm)							
4	G1/2" (inner hole $\Phi$ 10mm)							
5	1/2" NPT							
6	Clamp connection (measurement range $\leq$ 1MPa)							
0	Other (please specify)							
Code	Output signal							
2A	4~20mA							
2AH	4~20mA + HART communication							
0	Other (please specify)							
Code	Accuracy							
01	0.1%F.S (*3)							
02	0.2%F.S.							
05	0.5%F.S.							
Code	Pressure type and pressure range							
Custom	Refer to pressure type & pressure range table							
Code	Screen display							
N	No display							
A1	0~100% linear indicator							
A2	LCD digital display							
A3	LED digital display							
0	Others							
AT-PT186	S	B	1	2A	02	0~2MPa	A1	Order example: AT-PT186-S-B-1-2A-02-0~2MPa-A1