

Main Specifications

▼ **Pressure type**
 Gauge pressure
 Compound pressure
 Absolute pressure

▼ **Process connection**
 Material:
 SS316 / SS304 / Hastelloy C
 M20 x 1.5*
 G1/2" *
 1/2" NPT
 Clamp connection
 (measurement range ≤ 1MPa)
 *For inner hole please refer to
 how to order table

▼ **Electronical connection**
 Hirschmann connector (Std.)
 Hirschmann with cable outlet
 Cable outlet
 Aviation plug

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

▼ **Applicable fluid**
 Gas and liquid that compatible
 with stainless steel

▼ **Operating temperature**
 -40~+75°C

▼ **Protection level**
 IP65

▼ **Proof design (Option)**
 Explosion-proof level:
 Exd II CT5
 Flameproof level: Exd II BT5
 Anti-impact design
 Lightning-proof class anti
 surge

Other Specifications

▼ **Housing material**
 SS 304

▼ **Diaphragm material**
 Silicon chip / Piezoresistive
 ceramic / Ceramic capacitor /
 Silicon-on-sapphire (*1)

▼ **Power supply**
 15~36VDC

▼ **Output signal**
 4~20mA / 0~10V / 0~5V / 1~5V

▼ **Screen display (Option)**
 For more information please
 refer to how to order table

▼ **Accuracy**
 ±0.1% (*2)/±0.2%/±0.5% F.S.

▼ **Stability**
 <0.2%F.S./year

▼ **Temperature drift**
 <±0.01%F.S./°C
 (Option: 0.005%F.S./°C)

▼ **Compensated temperature**
 -10~+70°C

▼ **Operating pressure**
 1.5~3*F.S.

▼ **Other requests (Option)**
 Third party notarized documents
 Inspection report
 Tag

Compact Pressure Transmitter

Model: AT-PT183

Introduction

AT-PT183 compact pressure transmitter adopts high accuracy and stability pressure sensor. Its features include low temperature drift, high anti-interference and anti-surge technology. The compact design with all stainless case ensuring its high reliability. It has been widely applied in high interference environment such as frequency conversion, hydraulic and pneumatic pressure system.



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.)

(*1): Silicon-on-sapphire diaphragm can only select Φ 3mm inner hole connection.
 (*2): To achieve 0.1% accuracy, choose high stability silicon chip or ceramic capacitor as diaphragm material is required

Pressure type and pressure range table

Pressure type	Pressure range
Gauge pressure	0...100Pa to 3000bar
Sealed gauge pressure	-50~50Pa; -1...0 to 600bar
Absolute pressure	0...10kPa to 1000bar

Features

- OEM service
- Low temperature drift $< \pm 0.01\%$ F.S.
- Non-polarity connection
- Wide measurement range:
max 3000bar, min. 0.2kPa
- Continuous zero and span external adjustment

How to order

AT-PT183 Compact Pressure transmitter									
Std.	Spec.	Code	Item	Code	Item	Code	Item	Code	Item
S	Diaphragm material	S	Silicon chip	PC	Piezoresistive ceramic	CC	Ceramic capacitor	SA	Silicon-on-sapphire (*1)
A	Process connection material	A	SS316	B	SS304	C	Hastelloy C	—	—
1	Process connection type	1	M20 x 1.5 (inner hole Φ 3mm)	2	M20 x 1.5 (inner hole Φ 10mm)	3	G1/2" (inner hole Φ 3mm)	4	G1/2 (inner hole Φ 10mm)
		5	1/2" NPT	6	Clamp connection (measurement range \leq 1MPa)	0	Others (please specify)	—	—
H1	Electronical connection	H1	Hirschmann connector (Std.)	H2	Hirschmann with cable outlet	C	Cable outlet	A	Aviation plug
2A	Output signal	2A	4~20mA (2-wire)	1V	0~10V	2V	0~5V	3V	1~5V
05	Accuracy	01	\pm 0.1%F.S (*2)	02	\pm 0.2%F.S.	05	\pm 0.5%F.S.	—	—
Custom	Pressure type & pressure range	Please refer to pressure type & pressure range table							
N	Screen display	N	No display	A1	0~100% linear indicator	A2	3.5-digit LCD digital display	A3	4-digit LCD digital display
		A4	4-digit LED digital display	—	—	—	—	—	—

Order example: AT-PT183 - S - A - 1 - H1 - 2A - 05 - (0~100Pa) - N