

GENERAL

ALIAPT The APT3000HM Series pressure transmitter for general industrial application is the ideal solution for customers with demanding measuring requirements. APT3000HM very high quality product, which even the most adverse environmental conditions cannot affect. The APT3000HM offers continuous measuring ranges between 0-0.16 and 0-1000 bar in all the major units. These measuring ranges can be combined in the standard industry output signal. Application to machine building, Hydraulics, pneumatics, pumps, chemical industry.

FEATURES

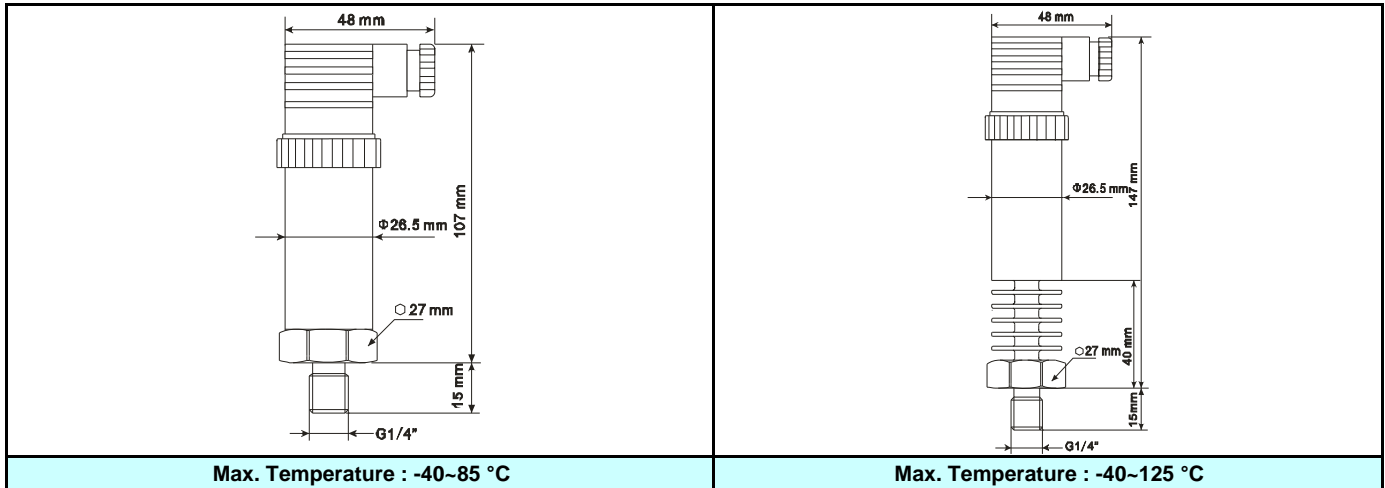
- ❑ Improved performance, increased accuracy and greater stability
- ❑ Non-linearity 0.2% of span (BFSL)
- ❑ Measuring ranges from 0-0.16~0-1000 bar
- ❑ Output signal: 4-20 mA (2 wires)
- ❑ Zero point and span adjustable
- ❑ Electrical connections: Angular connector

STANDARD SPECIFICATION

- | | | | |
|------------------------|------------------------------------------------|------------------------|------------------------------------------------------------------------------|
| ● Process Fluid | : Liquid, Gas, Vapor | ● Response Time | : ≥ 1 ms |
| ● Application | : Absolute Pressure, Gauge Pressure, Vacuum | ● Output Response Time | : ≤ 8 ms |
| ● Measuring Range | : 0-0.16~0-1000 bar | ● Current Output | : 4-20 mA 2 wires |
| ● Accuracy | : $\pm 0.45\%$ of span (Standard) | | Load : $\leq (\text{VDC}-15) / 0.02\text{A}$ |
| | : $\pm 0.20\%$ of span (Option) | ● Power Supply | : 11-36 VDC |
| ● Non-Linearity | : $\leq 0.2\%$ of span (BFSL) | ● Material | |
| ● Non-Repeatability | : $\leq 0.05\%$ of span | Connection | : Stainless steel 304 |
| ● Stability | : $\leq \pm 0.2\%$ of URL for 1 year | Diaphragm | : Stainless steel 316L |
| ● Working Temperature | : -40~85 °C (Standard) | Body | : Stainless steel 304 |
| | -40~125 °C (Option) | Fill Fluid | : Synthetic oil |
| ● Compensation Temp. | : -10~70 °C | Wetted O-ring (inside) | : Viton |
| ● Temp. Effect of zero | | Electrical Connector | : PA66+30% FV |
| | Ranges ≤ 0.25 bar : $\leq 0.4\%$ FS / 10K | ● Electrical Connector | |
| | Ranges > 0.25 bar : $\leq 0.2\%$ FS / 10K | Ingress Protection | : IP65 |
| ● Temp. Effect of span | : $\leq 0.2\%$ FS / 10K | Wire Cross-section | : Max. 1.5 mm ² |
| ● Vibration Resistance | : 20 g (20-2000 Hz) per IEC 60068-2-6 | Cable Diameter | : 6-8 mm |
| ● Shock Resistance | : 100 g (10 ms) | ● Ambient Temperature | : -20~80 °C |
| ● Adjustability | | ● Humidity Limit | : 5-95% Relative Humidity |
| | Zero Point : $\pm 20\%$ | ● EMI / RFI Effect | : Follow SAMA PMC 33.1 from 20-1000 MHz and for field strengths up to 30 V/m |
| | Span : $\pm 20\%$ | ● Dimensions | |
| ● Process Connection | : G1/4" (Standard) | | Standard : 48 mm (W) * 122 mm (H) * 34 mm (D) |
| | 1/2"NPT, 1/2" BSP, M20, 3/4"NPT | | High Temperature : 48 mm (W) * 202 mm (H) * 34 mm (D) |
| | 3/4"BSP etc. (Option) | ● Weight | : Approx 0.2 kg / 0.3 kg |
| ● Intrinsically Safe | : Ex ia IIC T6 (Standard) | | |



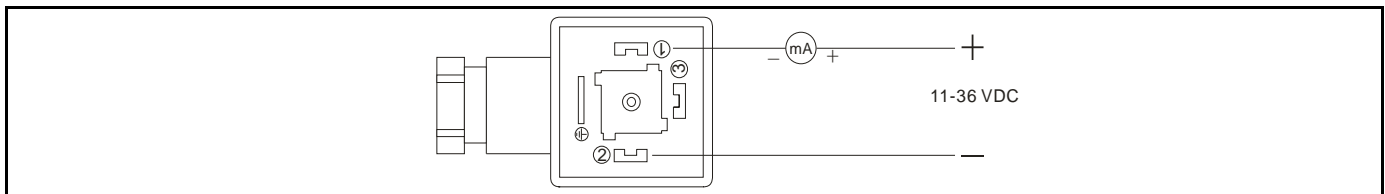
➤ DIMENSIONS



Max. Temperature : -40~85 °C

Max. Temperature : -40~125 °C

➤ WIRING DIAGRAM



➤ MEASURING RANGE

Range Code	Pressure Range	Range Code	Pressure Range	Range Code	Pressure Range	Range Code	Pressure Range
1	0-0.16 bar	6	0-1.6 bar	B	0-16 bar	G	0-160 bar
2	0-0.25 bar	7	0-2.5 bar	C	0-25 bar	H	0-250 bar
3	0-0.40 bar	8	0-4 bar	D	0-40 bar	J	0-400 bar
4	0-0.60 bar	9	0-6 bar	E	0-60 bar	K	0-600 bar
5	0-1 bar	A	0-10 bar	F	0-100 bar	L	0-1000 bar

Overpressure Limit_ Range code 1-F: 200% FS / Range code G-L: 150% FS

➤ MODEL SELECTION GUIDE

APT3000HM Series						
Example: APT3000HM-G9NN-1/2"NPT						
APT3000HM-	X	X	X	X	-XXXXX	Description
Type	G					Gauge Pressure Transmitter
	A					Absolute Pressure Transmitter * Note 1
Pressure Range	1-L					Please see MEASURING RANGE
Max. Temperature	N					-40~85 °C
	H					-40~125 °C
Accuracy	N					+/- 0.45% of span (Standard)
	C					+/- 0.20% of span (Option)
Connection	-NNNNN					G1/4" (Standard)
	-XXXXX					1/2"NPT, 1/2"BSP, M20 etc. (with Adaptor)

● **Note 1:** Absolute Pressure Transmitter only for range code 5-B

● **Note 2:** APP300HM ALIA Pressure Transmitter Programmer is used for APT3000HM calibration, range modification and 4-20 mA analog