

GENERAL

ALIAPT The APT3000 Series pressure transmitter for general industrial application is the ideal solution for customers with demanding measuring requirements. APT3000 very high quality product, which even the most adverse environmental conditions cannot affect. The APT3000 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

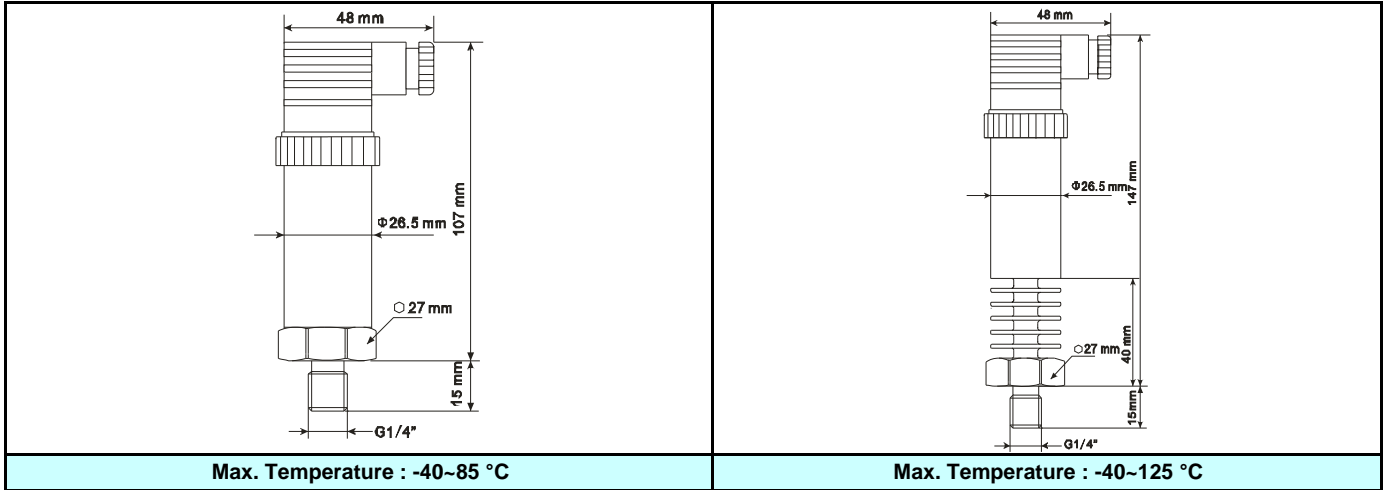
- Improved performance, increased accuracy and greater stability
- Non-linearizing 0.2% of span (BFSL)
- Measuring ranges from 0-0.16~0-1000 bar
- Output signal: 4-20 mA (2 wires)
- Zero point and span adjustable
- Electrical connections: Angular connector

STANDARD SPECIFICATION

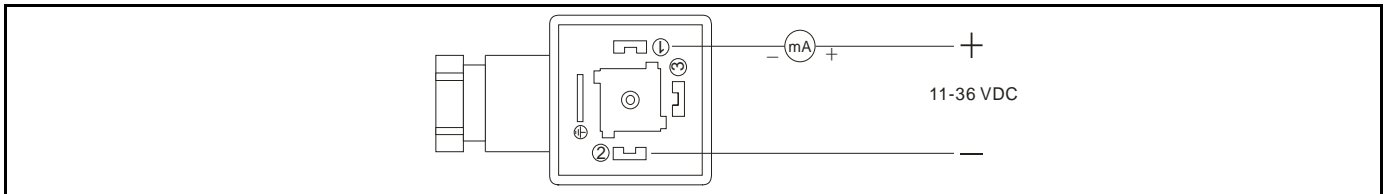
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| <ul style="list-style-type: none"> ● Process Fluid : Liquid, Gas, Vapor ● Application : Absolute Pressure, Gauge Pressure, Vacuum ● Measuring Range : 0-0.16~0-1000 bar ● Accuracy : +/- 0.45% of span (Standard)
: +/- 0.20% of span (Option) ● Non-Linearity : ≤0.2% of span (BFSL) ● Non-Repeatability : ≤0.05% of span ● Stability : ≤+/-0.2% of URL for 1 year ● Working Temperature : -40~85 °C (Standard)
-40~125 °C (Option) ● Compensation Temp. : -10~70 °C ● Temp. Effect of zero
Ranges≤0.25 bar : ≤0.4% FS / 10K
Ranges>0.25 bar : ≤0.2% FS / 10K ● Temp. Effect of span : ≤0.2% FS / 10K ● Vibration Resistance : 20 g (20-2000 Hz) per IEC 60068-2-6 ● Shock Resistance : 100 g (10 ms) ● Adjustability
Zero Point : +/- 20%
Span : +/- 20% ● Process Connection : G1/4" (Standard)
1/2"NPT, 1/2" BSP, M20, 3/4"NPT
3/4"BSP etc. (Option) ● Intrinsically Safe : Ex ia IIC T6 (Standard) | <ul style="list-style-type: none"> ● Response Time : ≥1 ms ● Output Response Time : ≤8 ms ● Current Output : 4-20 mA 2 wires
Load : ≤ (VDC-15) / 0.02A ● Power Supply : 11-36 VDC ● Material
Connection : Stainless steel 304
Diaphragm : Stainless steel 316L
Body : Stainless steel 304
Fill Fluid : Synthetic oil
Wetted O-ring (inside) : Viton
Electrical Connector : PA66+30% FV ● Electrical Connector
Ingress Protection : IP65
Wire Cross-section : Max. 1.5 mm²
Cable Diameter : 6-8 mm ● Ambient Temperature : -20~80 °C ● Humidity Limit : 5-95% Relative Humidity ● EMI / RF I Effect : Follow SAMA PMC 33.1 from 20-1000 MHz and for field strengths up to 30 V/m ● Dimensions
Standard : 48 mm (W) * 122 mm (H) * 34 mm (D)
High Temperature : 48 mm (W) * 202 mm (H) * 34 mm (D) ● Weight : Approx 0.2 kg / 0.3 kg |
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➤ DIMENSIONS



➤ 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

APT3000 Series						
Example: APT3000-G9NN-1/2"NPT						
APT3000-	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:** APP300 ALIA Pressure Transmitter Programmer is used for APT3000 calibration, range modification and 4-20 mA analog