

## GENERAL

**ALIAPT** 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 0-0.1 and 0-1000bar 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

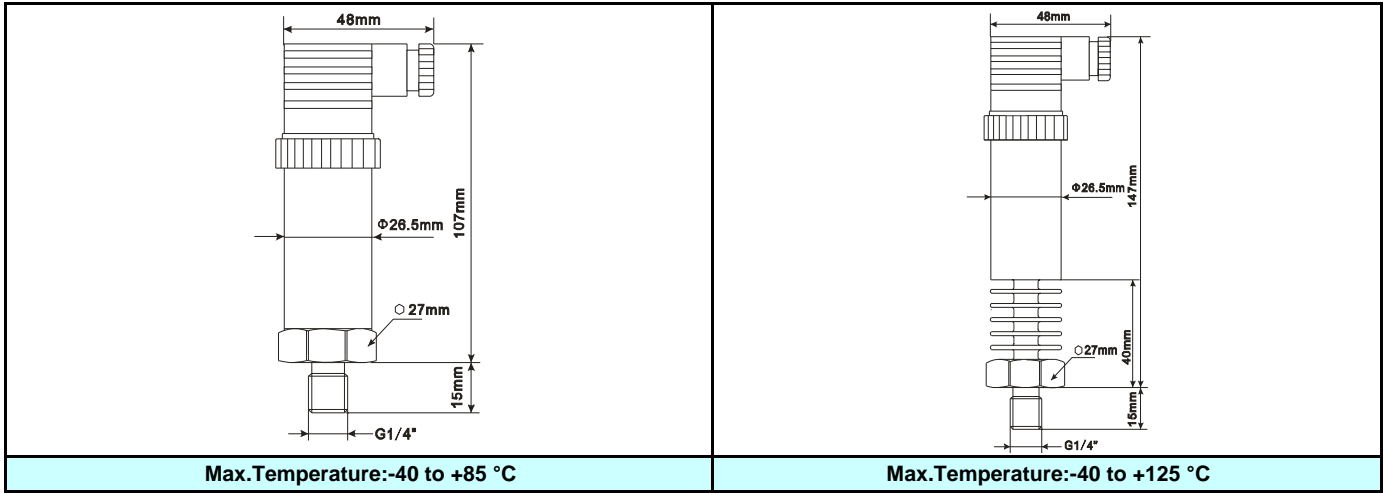
- Improved performance, increased accuracy and greater stability
- Non-linearizing 0.2% of span (BFSL)
- Measuring ranges from 0 - 0.1 bar ~ 0 - 1000 bar
- Output signal: 4-20 mA (2 wires)
- Zero point and span adjustable
- Electrical connections: Angular connector

## STANDARD SPECIFICATION

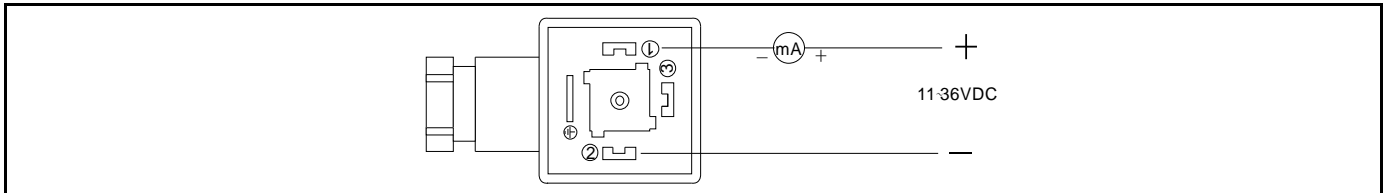
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|------------------------|--|------------------------|--|
| ● Process Fluid        | : Liquid, Gas or Vapor   | ● Response Time        | : ≤1ms   |
| ● Application          | : Absolute Pressure, Gauge Pressure, Vacuum  | ● Output Response Time | : ≤8ms   |
| ● Measuring Range      | : 0 - 0.1 bar ~ 0 - 1000 bar   | ● Current Output       | : 4 - 20 mA 2 wires<br>Load : ≤ (Vdc-15)/0.02A   |
| ● Accuracy             | : +/- 0.45% of span (Standard)<br>: +/- 0.20% of span (Option)                     | ● Power Supply         | : 11 - 36 VDC  |
| ● Non-Linearity        | : ≤0.2% of span (BFSL)   | ● Material             | Connection : Stainless steel SUS 304<br>Diaphragm : Stainless steel SUS 316L<br>Body : Stainless steel SUS 304<br>Fill Fluid : Synthetic oil |
| ● Non-Repeatability    | : ≤0.05% of span   | Wetted O-ring (inside) | : Viton  |
| ● Stability            | : ≤ +/-0.2% of URL for 1 year  | Electrical Connector   | : PA66+30%FV   |
| ● Working Temperature  | : -40 to +85 °C (Standard)<br>-40 to +125 °C (Option)                              | ● Electrical Connector | Ingress Protection : IP 65<br>Wire Cross-section : Max. 1.5mm <sup>2</sup><br>Cable Diameter : 6-8mm   |
| ● Compensation Temp.   | : -10 to +70 °C  | ● Ambient Temperature  | : -20 to +80 °C  |
| ● Temp. Effect of zero | Ranges ≤ 0.25bar : ≤0.4% FS/10K<br>Ranges > 0.25bar : ≤0.2% FS/10K                 | ● Humidity Limit       | : 5 to 95% Relative Humidity   |
| ● Temp. Effect of span | : ≤0.2% FS/10K   | ● EMI/RFI Effect       | : Follow SAMA PMC 33.1 from 20 to 1000 MHz and for field strengths up to 30 V/m  |
| ● Vibration Resistance | : 20g (20~2000Hz) per IEC 60068-2-6  | ● Dimensions           | Standard : 48 mm ( W ) * 122 mm ( H ) * 34 mm ( D )<br>High Temperature : 48 mm ( W ) * 202 mm ( H ) * 34 mm ( D )                           |
| ● Shock Resistance     | : 100g (10ms)  | ● Weight               | : approx 0.2 Kg / 0.3Kg  |
| ● Adjustability        | Zero Point : +/- 3%<br>Span : +/- 15%  |                        |  |
| ● Process Connection   | : G1/4" (Standard)<br>: 1/2"NPT, 1/2" BSP, M20, 3/4"NPT<br>3/4"BSP ...etc (Option) |                        |  |
| ● Intrinsically Safe   | Ex ia IIC T6 (Standard)  |                        |  |



**➤ DIMENSIONS**



**➤ WIRING DIAGRAM**



**➤ MEASURING RANGE**

Range Code	Pressure Range	Range Code	Pressure Range	Range Code	Pressure Range	Range Code	Pressure Range
1	0 - 0.1 bar	6	0 - 1.6 bar	B	0 - 16 bar	G	0 - 250 bar
2	0 - 0.2 bar	7	0 - 2.5 bar	C	0 - 25 bar	H	0 - 400 bar
3	0 - 0.35 bar	8	0 - 4 bar	D	0 - 60 bar	J	0 - 600 bar
4	0 - 0.7 bar	9	0 - 6 bar	E	0 - 100 bar	K	0 - 1000 bar
5	0 - 1 bar	A	0 - 10 bar	F	0 - 160 bar		

Overpressure Limit: Range code 1 to F :200%FS Range code G to K :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
Pressure Range	1 - K					Please see MEASURING RANGE
Max. Temperature	N					-40 to +85 °C
	H					-40 to +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: Absolute Pressure Transmitter only for range code 5 to B