

GENERAL

ALIAPT The APT30CS Series pressure transmitter for general industrial application is the ideal solution for customers with demanding measuring requirements. APT30CS very high quality product, which even the most adverse environmental conditions cannot affect. The APT30CS 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

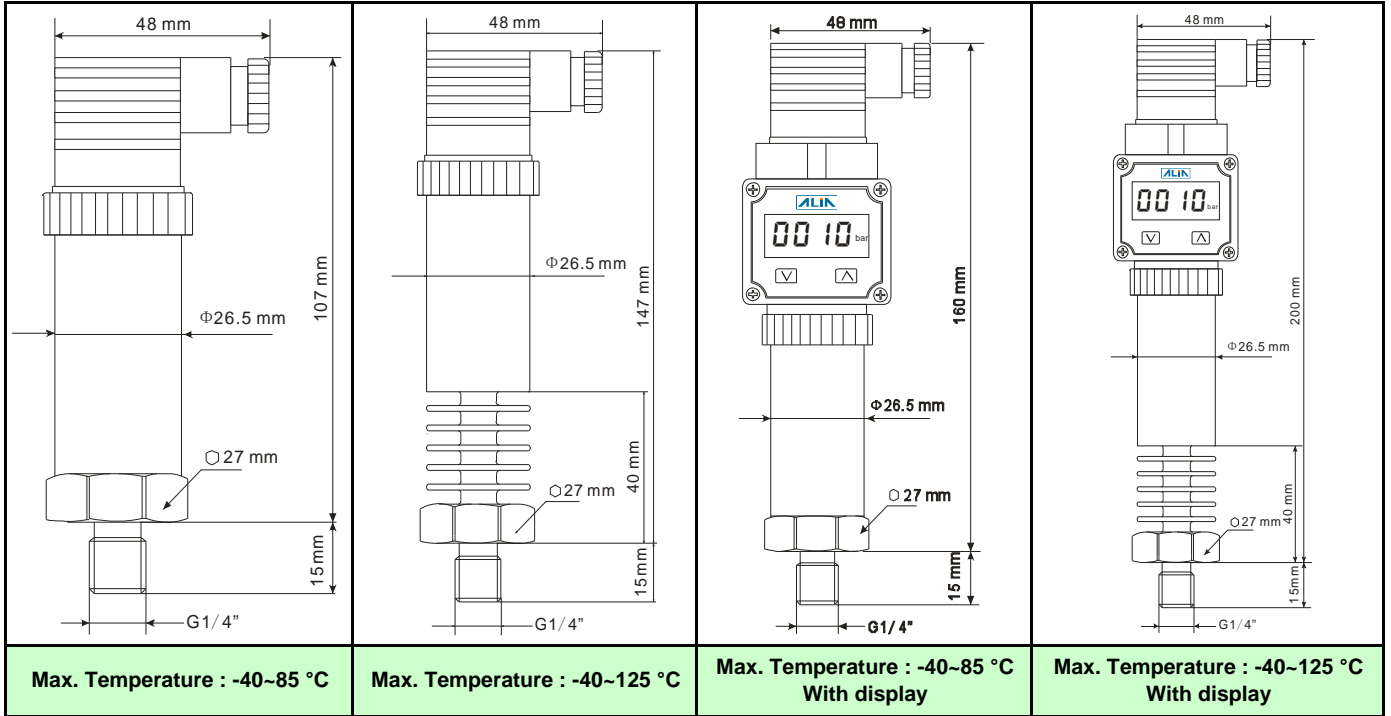
- Improved performance, increased accuracy and greater stability
- Non-linearing 0.2% of span (BFSL)
- Measuring ranges from 0-0.16~0-1000 bar
- Output signal: 4-20 mA (2 wires)
- Zero point and span adjustable
- Electrical connections: Angular connector
- 4 Digit LCD display, 270° rotatable

STANDARD SPECIFICATION

- | | | | |
|------------------------|--|------------------------|--|
| ● Process Fluid | : Liquid, Gas, Vapor | ● Display Range | : -1999~9999 |
| ● Application | : Absolute Pressure, Gauge Pressure, Vacuum | ● Display Unit | : MPa, bar, kPa, psi, pa, none |
| ● Measuring Range | : 0-0.16~0-1000 bar | ● Response Time | : ≥ 1 ms |
| ● Accuracy | : $\pm 0.45\%$ of span (Standard) | ● Output Response Time | : ≤ 8 ms |
| | : $\pm 0.20\%$ of span (Option) | ● Current Output | : 4-20 mA (2 wires) |
| ● Non-Linearity | : $\leq 0.2\%$ of span (BFSL) | | Load : $\leq (\text{VDC}-15) / 0.02\text{A}$ |
| ● Non-Repeatability | : $\leq 0.05\%$ of span | | Load : $\leq (\text{VDC}-19) / 0.02\text{A}$ (with Display) |
| ● Stability | : $\leq \pm 0.2\%$ of URL for 1 year | ● Power Supply | : 11-36 VDC |
| ● Working Temperature | : -40~85 °C (Standard) | | : 15-36 VDC (with Display) |
| | : -40~125 °C (Option) | ● Material | |
| ● Compensation Temp. | : -10~70 °C | | Connection : Stainless steel 304 |
| ● Temp. Effect of zero | | | Diaphragm : Stainless steel 316L |
| | Ranges ≤ 0.25 bar : $\leq 0.4\%$ FS / 10K | | Body : Stainless steel 304 |
| | Ranges > 0.25 bar : $\leq 0.2\%$ FS / 10K | | Fill Fluid : Synthetic oil |
| ● Temp. Effect of span | : $\leq 0.2\%$ FS / 10K | | Wetted O-ring (inside) : Viton |
| ● Vibration Resistance | : 20 g (20-2000 Hz) per IEC 60068-2-6 | | Electrical Connector : PA66+30% FV |
| ● Shock Resistance | : 100 g (10 ms) | | Display Case : PA66+30% FV |
| ● Adjustability | | ● Electrical Connector | |
| | Zero Point : $\pm 3\%$ | | Ingress Protection : IP65 |
| | Span : 65%-150% (with APP300) | | Wire Cross-section : Max. 1.5 mm ² |
| ● Process Connection | : G1/4" (Standard) | | Cable Diameter : 6-8 mm |
| | : 1/2" NPT, 1/2" BSPP, M20, 3/4" NPT | ● EMI / RFI Effect | : Follow SAMA PMC 33.1 from 20-1000 MHz and for field strengths up to 30 V/m |
| | : 3/4" BSPP etc. (Option) | ● Ambient Temperature | : -20~70 °C |
| ● Intrinsically Safe | : Ex ia IIC T6 (Standard) | ● Humidity Limit | : 0-95% Relative Humidity |



➤ DIMENSIONS



➤ 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

APT30CS Series							
Example: APT30CS-G9NN-D-1/2"NPT							
APT30CS-	X	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)
Display	-N						None
	-D						with Display
Connection	-NNNNN					G1/4" (Standard)	
	-XXXXX					1/2" NPT, 1/2" BSPP, 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 APT30CS calibration, range modification and 4-20 mA analog**