

SMART GAUGE PRESSURE TRANSMITTER

Special Features:

- Temperature Compensated
- HART Communication
- 90° Horizontal Tilt Display
- Explosion Proof with Intrinsic Safety
- Display of Pressure, Temperature and Current
- 0 - 100% Bar Graph Indication
- Zero Transfer, Range Setting Through Keypad



Overview:

Omicron's APR2000G SMART gauge pressure transmitter provides a kind of reliable measuring way. It is used for measuring pressure, level, density of liquid, gas or steam and convert the value of above into current signal output or digital protocol output. The pressures are directly applied to the isolating diaphragm that provide isolation and resistance against process fluid corrosion. Being micro processor based, the electronic circuit is extremely versatile and accurate. Combined with the sensor precision, it provides a high accuracy and high rangeability. Transmitter performance is improved by continuous monitoring of the temperature and corresponding compensation. A local display permits easy reading of data.

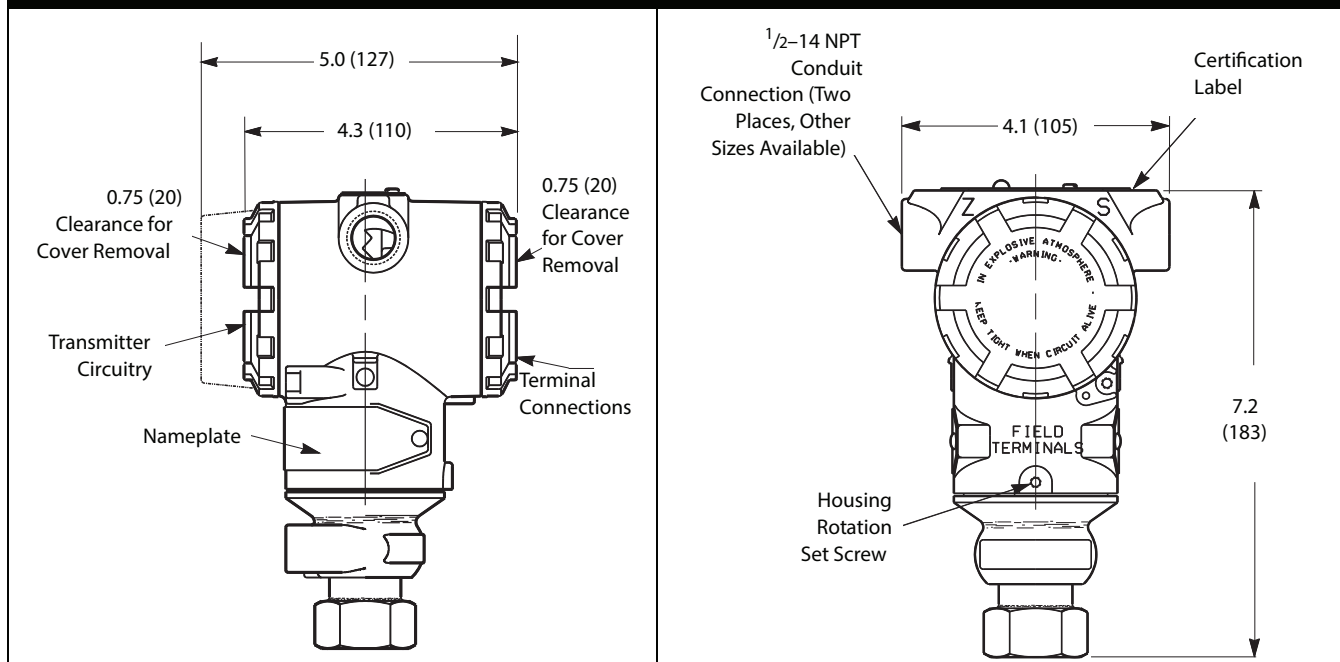
Performance Specifications:

Media Compaibility	:	Liquids, Gases and Steam
Measuring Ranges	:	10mbar ~ 700 bar
Output Signal	:	4 - 20mA, 2 Wire, HART Superimposed
Power Supply	:	12 - 45V DC
Operating Temperature	:	-20 ~ 120°C; Optionally Available for Temperatures ranges -75 ~ 150°C with accessories;
Operating Humidity	:	5 ~ 95% RH
Standard Accuracy	:	0.075% of F.S
Optional Accuracy	:	0.06% of F.S
Premium Accuracy	:	0.04% of F.S,
Zero & Span Setting	:	Onboard Keypad
Range Setting	:	Onboard Keypad
Process Connection	:	1/2" NPT(F)
Over Pressure	:	2X
Zero Elevation	:	On Site through Onboard Keypad
Zero Suppression	:	On Site through Onboard Keypad
Units Available	:	kPa, in H ₂ O, mmHg, ft H ₂ O, mm H ₂ O, mmHg, psi, bar, mbar, Pa, MPa
Enclosure Housing	:	Die cast Aluminium
Mounting	:	Bottom Mounting
Fill Fluid	:	Silicon DC 200 / 704
Diaphragm	:	AISI 316LSS / Monel / Hastalloy C / Tantalum
Flange / Adaptor	:	AISI 316LSS / Monel / Hastalloy C / Carbon Steel
Wetted O-Ring	:	Viton / Buna N
Seal O-Ring	:	Viton / Buna N
Agency Approval	:	CE

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Dimensions:

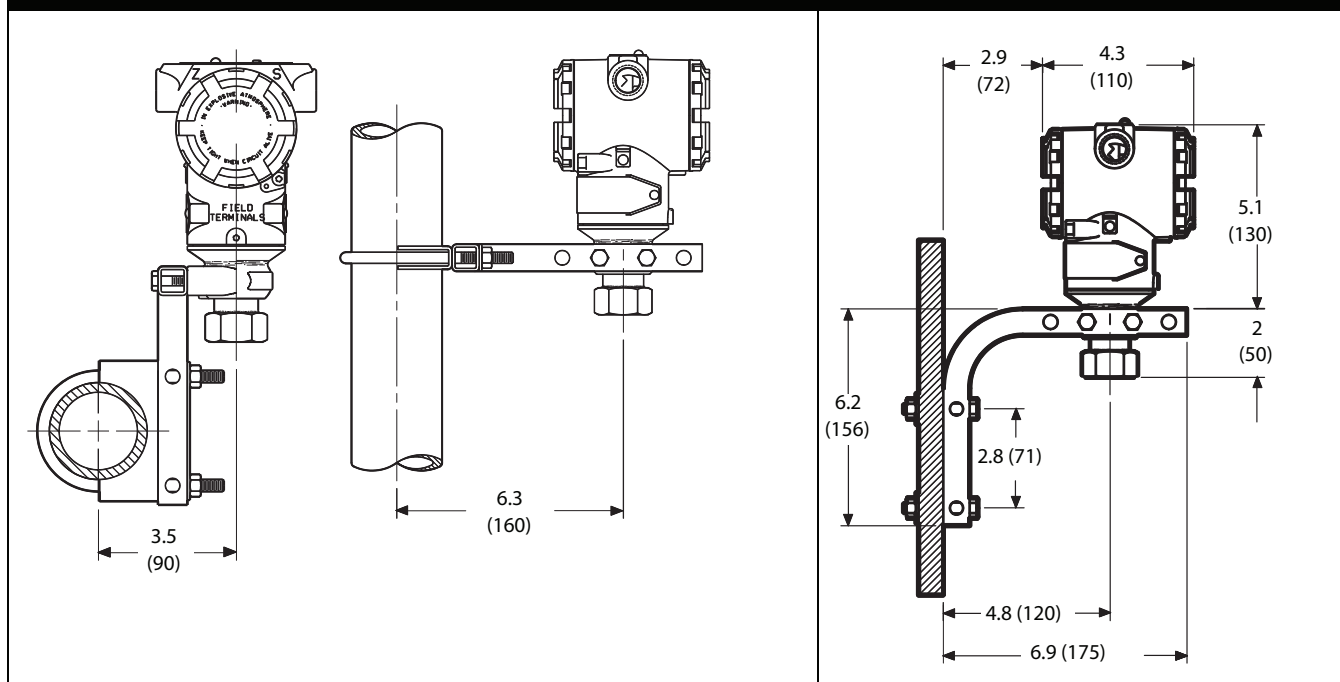
APR2000G Dimensional Drawings



APR2000G Typical Mounting Configurations with Optional Mounting Bracket

Pipe Mounting

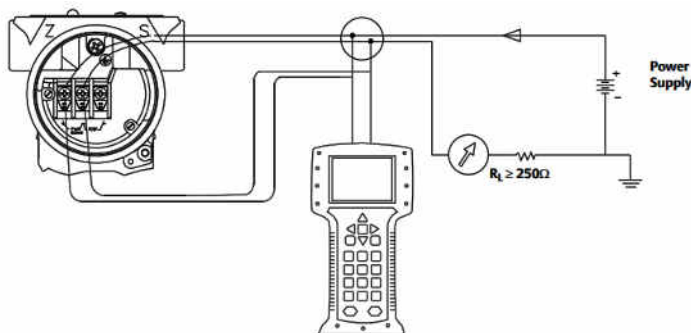
Panel Mounting



Dimensions are in inches (millimeters)

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Wiring Method :



HOW TO ORDER

Basic Model:

APR2000G

Pressure Range:

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- 2 0 ~ 0.125 - 1.5 kPa
- 3 0 ~ 1.5 - 7.5 kPa
- 4 0 ~ 6.5 - 40.0 kPa
- 5 0 ~ 35.0 - 200.0 kPa
- 6 0 ~ 135.0 - 1000 kPa
- 7 0 ~ 345.0 - 2000 kPa
- 8 0 ~ 1170 - 6890 kPa
- 9 0 ~ 3450 - 20680 kPa
- 0 0 ~ 6890 - 41370 kPa



S

- E 4 - 20mA DC
- S 4 - 20mA DC, 2 Wire, HART Superimposed

Material of Construction:

22

	Connection	Diaphragm
22	AISI 316 SS	AISI 316LSS
23	AISI 316 SS	Hastealloy C
24	AISI 316 SS	Monel
25	AISI 316 SS	Tantalum
33	Hastealloy C	Hastealloy C
35	Hastealloy C	Tantalum
44	Monel	Monel

Options:

B3

- M1 0 - 100% Analogue Indicator
- M3 4 1/2 LCD Display