

SMART LEVEL TRANSMITTER

Special Features:

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



Overview:

Omicron's APR2000 SMART Level transmitter provides a kind of reliable measuring way. It is used for measuring level (or pressure), 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 microprocessorbased, 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	:	1 mH ₂ O ~ 400 mH ₂ O
Output Signal	:	4 - 20mA, 2 Wire, HART Superimposed
Power Supply	:	12 - 45V DC
Operating Temperature	:	-10 ~ 120 °C
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	:	Flanged Connection
Static Pressure	:	40 bar, 100 bar, 250 bar and 320 bar
Zero Elevation	:	On Site through Onboard Keypad
Zero Suppression	:	On Site through Onboard Keypad
Units Available	:	kPa, inH ₂ O, mHg, ftH ₂ O, mmH ₂ O, mmHg, psi, bar, mbar, Pa, MPa
Enclosure Housing	:	Die cast Aluminium
Mounting	:	Mounting Bracket for 2" Pipe
Fill Fluid	:	Silicon DC 200 / 704
Diaphragm	:	AISI 316LSS / Monel / Hastalloy C / Tantalum
Flange / Adaptor	:	AISI 316LSS / Monel / Hastalloy C / Carbon Steel
Drain / Vent	:	AISI 316LSS / Monel / Hastalloy C
Wetted O-Ring	:	Viton / Buna N
Seal O-Ring	:	Viton / Buna N
Bolts, Nuts	:	AISI316SS / Carbon Steel

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HOW TO ORDER

Basic Model:

APR2000L

Differential Pressure Range:

2

3	0 ~ 1.3 - 7.5 kPa
4	0 ~ 4.0 - 40.0 kPa
5	0 ~ 40.0 - 200.0 kPa
6	0 ~ 160.0 - 1000 kPa
7	0 ~ 345.0 - 2000 kPa
8	0 ~ 1170 - 6890 kPa

Output:

S

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

Material of Construction:

22

	Flange	Drain / Vents	Diaphragm
22	AISI 316 SS	AISI 316 SS	AISI 316LSS
23	AISI 316 SS	AISI 316 SS	Hastealloy C
24	AISI 316 SS	AISI 316 SS	Monel
25	AISI 316 SS	AISI 316 SS	Tantalum
33	Hastealloy C	Hastealloy C	Hastealloy C
35	Hastealloy C	Hastealloy C	Tantalum
44	Monel	Monel	Monel

Flanged Connection:

F3

F1	80NB ASA 150# RF	F2	80NB ASA 300# RF
F3	100NB ASA 150# RF	F4	100NB ASA 300# RF

Insertion Length:

L3

L1	Flat Flange	L2	50MM Insertion
L3	100MM Insertion	L4	150MM Insertion

Options:

B3

M1	0 - 100% Analogue Indicator
M3	4 1/2 LCD Display
B1	2" Pipe Mounting, Angle Bracket
B2	Wall Mounting, Angle Bracket
B3	2" Pipe Mounting, Carbon Steel

Ordering Example:

APR2000L-2S-22-F3-L3-B3