



Digital Industrial Pressure and Temperature Transmitter with RS485 bus

AV2000

OVERVIEW

The AV2000 is Media Isolated sensor is intended for industrial general purpose. OEM applications that require measurement of liquids and gases up to 3000PSI. The AV2000 offers rugged construction, latest in MEMs technology, advanced electronics and competitive pricing, fast delivery.

BENEFITS

- * Low Static and Thermal Errors
- * Wide Operating Temperature Range
- * Compact Size
- * Pressure Ranges from 0-5 to 0-3000PSI
- * CE Approved

APPLICATIONS

- * Pressure Instrumentation
- * Water Level
- * Boiler Controls
- * Pneumatics
- * HVAC/R Systems



Performance@25°C (77°F)

Accuracy*	<±0.25% BFUL, Max
Stability (1 year)	<±0.2% typ.
Burst Pressure	5X rated or 10000PSI (whichever is less)
Pressure Cycles	>1 Million at Full Pressure
Over range Protection	2X rated (4X optional)
Pressure Type	Gauge, Sealed, Absolute
Response Time	≤1ms (up to 90% FS)

Output	Excitation
Pressure and Temperature dual outputs with RS485 Bus	12-24VDC

* Accuracy includes non-linearity, hysteresis & non-repeatability

Physical Description

Wetted Material	316L SS
Electrical Connection	M12x1, 5-Pin
Body Material	Stainless Steel
Weight	95g
Reverse Polarity Protection	Yes

Environmental Data

Temperature

Operating Ambient	-20 to 80°C
Storage	-40 to 120°C
IP rating	IP65

Thermal Limits

Compensated Range	0°C to 70°C
TC Zero	<±1.5% of FS
TC Span	<±1.5% of FS

Other

Shock	100 (11ms)
Vibration	20g (20 to 5000 Hz)



Ordering Method



For Example:-

AV2000 P 03K G X L M Z 101

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Series	Code	Description		⑥ Wetted Material	L	316L
	AV2000				H	Hastelloy C276
② Pressure Unit	B	bar		⑦ Output	M	RS-485
	P	PSI				
③ Pressure Range	000	Standard Pressure Range (3-Code)		⑧ Electrical Connection	Z	M12x1-5Pin
	Example	018	18			
		725	725			
		01K	1000			
		03K	3000			
④ Pressure Type	A	Absolute		⑨ Options Code	101	1/2MNPT Header Thread w/ PT100
	G	Gauge			102	G1/2 Header Thread w/ PT100
	S	Sealed Gauge			000	No Special Options (3-Digit Code)
⑤ Header Thread	X	Special Unit (See Option Code)				

DIMENSIONAL DATA

