



Low Power Wireless IIOT digital output

MEMs Pressure Sensor

AV330

OVERVIEW

The AV330 is designed to offer Digital and Analog outputs for critical application. The output signals include 0.5~4.5V ratiometric, 0.5~2.5V ratiometric & I2C. The power supply can be as low as 3.3V. The power consumption is very low. It is ideal for remote wireless systems and IIOT applications.

BENEFITS

- * Temperature digital compensation
- * ASIC calibration
- * Lower power consumption
- * Customize OEM
- * Low Static and Thermal Errors
- * Wide Operating Temperature Range
- * Pressure Ranges from 0-1 PSI to 0-1000 PSI (70 Bar)
- * CE Approved

APPLICATIONS

- * Water Level
- * Pneumatics
- * Microcontroller system
- * Wireless monitoring
- * IIOT application
- * Barometric pressure, fluid pressure measurement



Performance@25°C (77°F)

Accuracy*	+/- 0.25% typ.
Stability (1 year)	+/- 0.2% typ.
Over range Protection	2X rated (4X optional)
Pressure Type	Gauge, Sealed, Absolute
Response Time	≤1ms (up to 90% FS)

Output	Excitation	Zero Offset	Span Tolerance
I ² C	3.3VDC typ.	<±1% of FS	<±1.5% of FS
0.25-2.5V Ratiometric			
0.5-4.5V Ratiometric	5VDC typ.		

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

Physical Description

Wetted Material	316L
Electrical Connection	Packard, Din 43650C, M12, Cable etc.
Body Material	Stainless Steel 304L
Weight	95g
Reverse Polarity Protection	Yes

Environmental Data

Temperature

Operating	-40 to 105°C
Storage	-40 to 125°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:-

AV330 A 000 A 4 L 0 C 000

- 1 2 3 4 5 6 7 8 9

1 Series	Code	Description
	AV330	

7 Output	6	0.5-2.5V Ratiometric
	D	I ² C
	8	0.5-4.5V Ratiometric

2 Pressure Unit	Code	Description
	A	kPa
	B	bar
	C	kg/cm ²
	P	PSI

8 Electrical Connection	C	Din43650C Connector
	D	Deutsch DT04-3P
	E	Deutsch DT04-4P
	P	Packard Metripack 150
	Q	1m Cable
	R	2m Cable
	S	3m Cable
	Y	M12x1 - 4P
	X	Other Cable Length / Special Connection (See Option Code)

3 Pressure Range	000	Standard Pressure Range (3-Code)	
	Example	0d1	0.1
		2d5	2.5
		018	18
		725	725
		01K	1000
	*	K	1.00E+03
d		Decimal Place	

Maximum Pressure Range up to 1000 PSI

9 Options Code	Code	Description
	026	IP68

4 Pressure Type	A	Absolute
	G	Gauge
	S	Sealed Gauge
	X	Special Offset (See Option Code)

5 Header Thread	4	1/4 MNPT
	8	1/8 MNPT
	5	M20x1.5 Male
	7	7/16-20 UNF Male
	E	1/4 NPT Female
	F	1/8 NPT Female
	Q	7/16-20 UNF Female
	Y	G1/2 Male
	Z	G1/4 Male
X	Special Unit (See Option Code)	

6 Wetted Material	L	316L-SS
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DIMENSIONAL DATA

