



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

Low Power Wireless IIOT digital output

MEMs Pressure Sensor

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)

isOMEM™



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	Code	Description
	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	Code	Description
	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	Code	Description
	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	Code	Description
	A	Absolute
	G	Gauge
	S	Sealed Gauge
	X	Special Offset (See Option Code)

5

Header Thread	Code	Description
	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	Code	Description
	L	316L-SS

DIMENSIONAL DATA

