

AVAILABLE
with Signature
Calibration
SEE PG. IN-5

Low Range Wet/Wet Differential Pressure Transducers

Models Z and A-5

0.5 TO 25 PSID

ACCURACY TO 0.25%

AMPLIFIED OUTPUT AVAILABLE



CENELEC
APPROVED



APPROVED
INTRINSICALLY
SAFE AMP

SENSOTEC's Low Range Wet/Wet Differential pressure transducers utilize a bi-directional design which accepts fluid in both ports to measure full scale differential pressures from 0.5 to 25 psid. Maximum line pressure is 1500 psi as a standard feature and 3000 psi as an option. Standard industrial environments. Impressive accuracies of 0.25% to 0.5% full scale are provided over a wide variety of line pressures. Typical applications include flow measurement, depth sensing, pressure equalization, and liquid level.

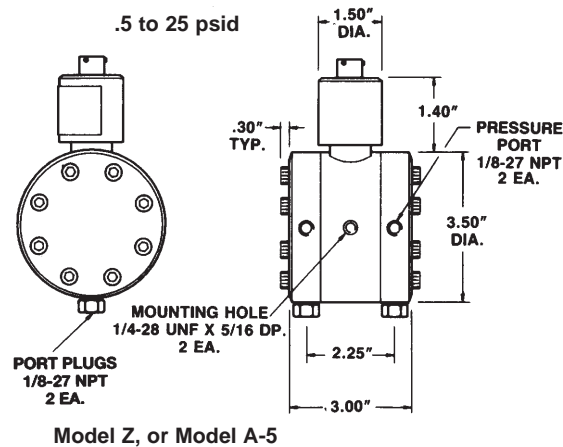
Dimensions

Model Z (Order Code AD111)

Model A-5 (Order Code AD112)

Available Ranges

0.5; 1; 2; 5; 10; 15; 25



Options (See Appendix)

Temperature compensated 1a; Internal amps 2b, 2c, 2n, 2j; Amp enhancement 3d; Electrical termination 6e, 6f, 6g; Int. shunt cal 8a; Line pressure 25a, 25b; Signature calibration 53e.

Premium Options: 1c, 1d (-10° F to 130° F); 2q; 3a, 3c; 5c; 6b, 6c, 6i, 6j; 25c (≥5 psid); 26a, 26c

Accessories: Mating connectors and connector/cable assemblies; Pressure port adapters

	Model Z	Model A-5	
	Order Code AD111	Order Code AD112	
PERFORMANCE	Pressure Ranges	0.5 to 25 psid	0.5 to 25 psid
	Accuracy (min) BFSL	±0.25% F.S.	±0.50% F.S.
	Non-Linearity (max).....	±0.15% F.S.	±0.25% F.S.
	Hysteresis (max)	±0.10% F.S.	±0.13% F.S.
	Non-Repeatability (max)	±0.05% F.S.	±0.07% F.S.
	Output (standard)		
	0.5 psid	1.0mV/V	1.0mV/V
	1 to 2 psid	1.5mV/V	1.5mV/V
	5 to 25 psid	2.0mV/V	2.0mV/V
	Resolution	Infinite	Infinite
ENVIRONMENTAL	Temperature, Operating.....	30° F to 190° F	30° F to 190° F
	Temperature, Compensated ...	30° F to 130° F	30° F to 130° F
	Temperature Effect		
	- Zero (max)	±.5% F.S./100° F	.75% F.S./100° F
	- Span (max).....	±.5% Rdg./100° F	.75% Rdg./100° F
ELECTRICAL	Strain Gage Type	Bonded foil	Bonded foil
	Excitation (calibration).....	10VDC	10VDC
	Excitation (acceptable).....	Up to 10VDC or AC	Up to 10VDC or AC
	Insulation Resistance.....	5000 megohm @ 50VDC	5000 megohm @ 50VDC
	Bridge Resistance	350ohm	350ohm
	Wiring Code (std)	#2 (See Pg. AP-8)	#2 (See Pg. AP-8)
	Shunt Calibration Data	Included	Included
	Electrical Termination (std)	PTIH-10-6P or equiv. (Hermetic stainless)	PTIH-10-6P or equiv.
	Mating Connector (not incl.)....	PTO6A-10-6S or equiv.	PTO6A-10-6S or equiv.
	MECHANICAL	Media	Gas, Liquid
Maximum Line Pressure		1500 psi	1500 psi
Maximum Overload - Safe (either side)		1500 psi	1500 psi
Pressure Port		1/8-27 NPT	1/8-27 NPT
Tapped Mounting Hole (2ea.)		1/4-28 UNF x 5/16 DP	1/4-28 UNF x 5/16 DP
Drain Port		1/8-27 NPT	1/8-27 NPT
Wetted Parts Material		316 Stainless	316 Stainless
Weight		8.3 lbs.	8.3 lbs.
O-Ring Seals		viton	viton
Dead Volume		0.4 cu. in.	0.4 cu. in.
Case Material	316 Stainless	316 Stainless	
INTERNALLY AMPLIFIED UNITS (Optional)	Outputs Available	±5VDC, 4-20mA	±5VDC, 4-20mA
	Additional Length	1.12"	1.12"

NOTES Unless otherwise specified on order, amplified units with **4-20mA output will provide 4mA at 0 psid and 20mA at positive full scale** and the unit will not operate in the negative direction. An available alternative is to specify 4mA at negative full scale and 20mA at positive full scale. Intrinsically safe amp (Option 2n).

General Information

How to order (See Pg. AP-19)
 Differential pressure selection flow chart (See Pg. DP-1)
 Wiring Codes (See Pg. AP-8)

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