

AVAILABLE
with Signature
Calibration
SEE PG. IN-5

Mid Range Wet/Wet Differential Pressure Transducers

Models Z and A-5



CENELEC



APPROVED
INTRINSICALLY
SAFE AMP



50 TO 750 PSID

ACCURACY TO 0.25%

HIGH LINE

AMPLIFIED OUTPUT AVAILABLE

SENSOTEC Models Z and A-5 Mid Range Wet/Wet Differentials are high accuracy, bonded foil strain gage transducers designed to accept fluid in both ports and measure differential pressure ranges of 50 to 750 psid. Standard features such as overload stops and stainless steel construction provide unit durability in rugged industrial environments. Each series is bi-directional and achieves accuracies of .25-.5% full scale. The models are available with extended temperature ranges. Typical applications include flow measurement, depth sensing, pressure equalization, and liquid level.

Dimensions

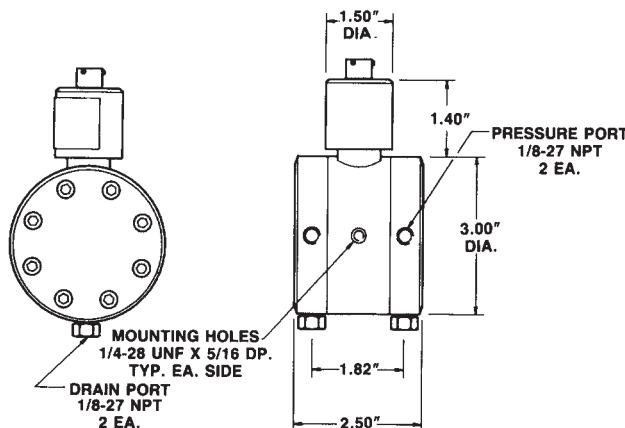
Model Z (Order Code AD122)

Model A-5 (Order Code AD123)

Available Ranges*

50; 75; 100; 150; 200; 300; 500; 750 psid

* Stocked ranges are in bold faced print. Model A-5 is stocked complete and semi-complete. Model Z is stocked semi-complete (3-6 weeks) only.



Model Z or A-5

Options (See Appendix)

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

Premium Options: 1g, 1i; 2q; 3a; 5c; 6b, 6c, 6i; 10a; 26a

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

	Model Z Order Code AD122	Model A-5 Order Code AD123	
PERFORMANCE	Pressure Ranges..... Accuracy (min) Non-Linearity (max)..... Hysteresis (max) Non-Repeatability (max)..... Output (standard) Resolution	50 to 750 psid $\pm 0.25\%$ F.S. $\pm 0.15\%$ F.S. $\pm 0.10\%$ F.S. $\pm 0.05\%$ F.S 2mV/V Infinite	50 to 750 psid $\pm 0.5\%$ F.S. $\pm 0.25\%$ F.S. $\pm 0.13\%$ F.S. $\pm 0.07\%$ F.S 2mV/V Infinite
ENVIRONMENTAL	Temperature, Operating Temperature, Compensated Temperature Effect - Zero (max)..... - Span (max).....	-65° F to 250° F 60° F to 160° F .5% F.S./100° F .5% Rdg./100° F	-65° F to 250° F 60° F to 160° F .75% F.S./100° F 1% Rdg./100° F
ELECTRICAL	Strain Gage Type Excitation (calibration) Excitation (acceptable) Insulation Resistance Bridge Resistance Shunt Calibration Data Wiring Code (std) Electrical Termination (std)..... Mating Connector (not incl.)	Bonded foil 10VDC Up to 10VDC or AC 5000 megohm @ 50VDC 350 ohm Included #2 (See Pg. AP-8) PTIH-10-6P or equiv. (Hermetic stainless) PT06A-10-6S or equiv.	Bonded foil 10VDC Up to 15VDC or AC 5000 megohm @ 50VDC 350 ohm Included #2 (See Pg. AP-8) PTIH-10-6P or equiv. PT06A-10-6S or equiv.
MECHANICAL	Media..... Maximum Line Pressure Maximum Overload – safe (either side) Pressure Port Tapped Mounting Hole (2ea) Drain Port Wetted Parts Material..... Weight O-Ring Seals..... Dead Volume..... Case Material	Gas, Liquid 1500 psi 1500 psi 1/8-27 NPT 1/4-28 UNF x 5/16 DP 1/8-27 NPT 17-4 PH Stainless 5.0 lbs. viton 0.25 cu. in. 17-4 Stainless	Gas, Liquid 1500 psi 1500 psi 1/8-27 NPT 1/4-28 UNF x 5/16 DP 1/8-27 NPT 17-4 PH Stainless 5.0 lbs. viton 0.25 cu. in. 17-4 Stainless
INTERNAL AMPLIFIED UNITS (Optional)	Outputs Available Additional Length.....	± 5 VDC, 4-20mA 2"	± 5 VDC, 4-20mA 2"

NOTE: 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) adds 2" to amplifier housing.

General Information

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

AVAILABLE
with Signature
Calibration
SEE PG. IN-5

High Range Wet/Wet Differential Pressure Transducers

Models Z and A-5

AMPLIFIED OUTPUT AVAILABLE

2000 to 10,000 psid

ACCURACY TO 0.25%



1-800-848-6564

Honeywell
SENSOTEC

www.honeywell.com/sensing

PERFORMANCE

SENSOTEC Z and A-5 High Range Wet/Wet transducers are engineered to measure differential pressures as great as 10k psid and achieve accuracies of 0.25%-0.5% full scale. Each series is bi-directional and accepts fluid in both ports. 17-4 PH stainless steel ensures durability of these bonded foil strain gage units under harsh industrial conditions. Typical applications include flow measurement, depth sensing, pressure equalization, and hydraulic testing.

Model Z Order Code: BD141

Model A-5 Order Code: BD142

Pressure Ranges.....	2000 to 10,000 psid	2000 to 10,000 psid
Accuracy.....	+/- 0.25% F.S.	+/- 0.5% 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)	2mV/V	2mV/V
Resolution	Infinite	Infinite

ENVIRONMENTAL

Temperature, Operating	-65° F to 250° F	-65° F to 250° F
Temperature, Compensated	60° F to 160° F	60° F to 160° F
Temperature Effect		
- Zero (max).....	0.5% F.S./100° F	0.75% F.S./100° F
- Span (max).....	0.5% Rdg./100° F	1% Rdg./100° F

ELECTRICAL

Strain Gage Type	Bonded foil	Bonded foil
Excitation (calibration)	10VDC	10VDC
Bridge Resistance	350 ohm	350 ohm
Wiring Code (std)	#2 (See Pg. AP-8)	#2 (See Pg. AP-8)
Electrical Termination (std)	PTIH-10-6P or equiv. (Hermetic stainless)	PTIH-10-6P or equiv. (Hermetic stainless)
Mating Connector (not incl.)	PT06A-10-6S or equiv.	PT06A-10-6S or equiv.

MECHANICAL

Media.....	Gas, Liquid	Gas, Liquid
Maximum Line Pressure	2000 psi	2000 psi
Maximum Overload - safe.....		
(either side)		
2000 to 3000 psid.....	100% over capacity	100% over capacity
5000 to 10,000 psid.....	50% over capacity	50% over capacity
Pressure Port	1/4-18NPT female	1/4-18NPT female
Wetted Parts Material.....	17-4 PH Stainless	17-4 PH Stainless
Case Material	17-4 PH Stainless	17-4 PH Stainless

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) adds 2" to amplifier housing.

Dimensions

Models Z (Order Code BD141) Models A-5 (Order Code BD142)

Available Ranges
2,000; 3,000; 5,000; 7,500; 10,000 psid

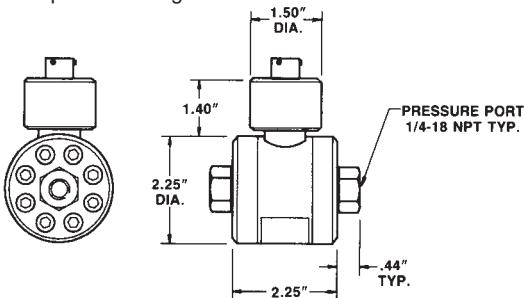
Options (See Appendix)

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

Premium Options: 2q, 3a, 5c, 6b, 6c, 6i, 6j

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

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