

AVAILABLE
with Signature
Calibration
SEE PG. IN-5

General Purpose Gage/Absolute Pressure Transducers

Model Z



AMPLIFIED OUTPUT AVAILABLE

STAINLESS STEEL

0.5 to 60,000 psi, 35 mbar to 4000 bar



CENELEC
APPROVED



APPROVED
INTRINSICALLY
SAFE AMP

The SENSOTEC Model Z is designed as a general industrial pressure transducer with a wide variety of available options to meet specific application requirements. Pressure ranges span from 0.5 to 30,000 psi. All models are constructed of stainless steel and utilize complete four arm 350 ohm strain gage bridges. Model Z transducers use a standard gage design. The absolute models have an internal sealed 0 psia reference.

Dimensions

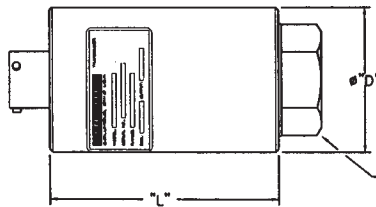
Model Z Gage (Order Code AP131)

Available Ranges*	D"	L"
1; 2; 5 psig	2.25 (5.72 cm)	1.93 (4.90 cm)
10; 15 psig	1.75 (4.45 cm)	2.00 (5.08 cm)
25; 50; 75; 100; 150; 200; 300; 500 psig	1.5 (3.81 cm)	2.00 (5.08 cm)
750; 1000; 1500; psig	1.5 (3.81 cm)	2.13 (5.41 cm)
2000; 3000; 5000; 7500; 10,000 psig	1.5 (3.81 cm)	1.90 (4.83 cm)
15,000; 20,000; 30,000; 50,000; 60,000 psig	1.5 (3.81 cm)	**

*Stocked ranges are in bold face print.
**Consult Sensotec

Model Z Absolute (Order Code AP132)

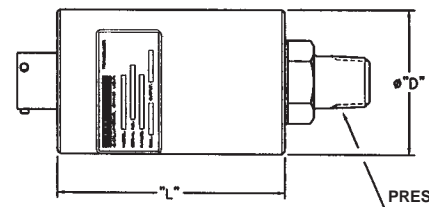
Available Ranges*	D"	L"
5 psia	2.25 (5.72 cm)	2.54 (6.45 cm)
10; 15; 25; 50; 75; 100; 150; 200; 300; 500; 750; 1000; 1500 psia	1.5 (3.81 cm)	2.35 (5.97 cm)
2000; 3000; 5000; 7500; 10,000 psia	1.5 (3.81 cm)	1.90 (4.83 cm)
15,000; 20,000; 30,000; 50,000; 60,000 psia	1.5 (3.81 cm)	**



2000 to 60,000 psi
140 bar to 4000 bar

2,000 to 10,000 PSI
PRESSURE PORT
1/4-18 FEMALE NPT

15,000 TO 60,000 PSI
PRESSURE PORT
AUTOCLAVE F-250C



0.5 to 1500 psi
35 mbar to 100 bar

PRESSURE PORT
1/4-18 NPT MALE

Options (See Appendix)

Temperature compensated 1b, 1c, 1d, 1e, 1f; Internal amps 2a; 2c; 2j; 2t; Intrinsically Safe Amp 2n; Amp enhancements 3d; Pressure ports 5a, 5b, 5c, 5d (15,000 psi); Electrical terminations 6e, 6f, 6g, 6h, 6i; Int. shunt cal 8a; Signature calibration 53e

Premium Options: 1g (15 psi); 1i (15 psi only); 2q; 3a, 3b, 3c; 6b, 6c, 6j; Special calibration 9a (5 psi gage only); 9b (Gage only, 5 psi); 10a; 12a, 12b

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

1-800-848-6564

SENSOTEC

www.sensotec.com

Model Z

Gage: Order Code AP131
Absolute: Order Code AP132

PERFORMANCE

Pressure Ranges.....	0.5 to 60,000 psi* (35 mbar to 4000 bar)
Accuracy (min)	+ /-0.25% F.S.
Non-Linearity	+ /-0.15% F.S.
Hysteresis.....	+ /-0.10% F.S.
Non-Repeatability.....	+ /-0.05% F.S.
Output (standard)	3mV/V**
Resolution	Infinite

ENVIRONMENTAL

Temperature, Operating	-100° F to 325° F (-73° to 162° C)
Temperature, Compensated	60° F to 160° F (15° C to 71° C)
Temperature Effect	
– Zero (max).....	0.005% F.S./° F (0.009% FS./° C)
– Span (max).....	0.005% Rdg./° F (0.009% Rdg./° C)

ELECTRICAL

Strain Gage Type	Bonded foil
Excitation (calibration).....	10VDC
Excitation (acceptable).....	Up to 12VDC or AC
Insulation Resistance	5000 megohm @ 50VDC
Bridge Resistance	350 ohms
Shunt Calibration Data	Included
Wiring Code (std)	#2 (See Pg. AP-8)
Electrical Termination (std).....	PTIH-10-6P or equiv. (Hermetic stainless)
Mating Connector (not incl.).....	PT06A-10-6S or equiv.

MECHANICAL

Media.....	Gas Liquid
Overload-Safe	50% over capacity
Overload-Burst	
0.5 to 5000 psi	300% over capacity
7500 to 10,000 psi	200% over capacity
15,000 to 60,000 psi	70% over capacity
Pressure Port	
0.5 to 1500 psi	1/4-18 NPT male
2000 to 10,000 psi	1/4-18 NPT female
15,000 to 60,000 psi	Autoclave AE F250-C
Dead Volume.....	
0.5 to 5 psi	0.32 cu. in.
10 to 15 psi	0.25 cu. in.
25 to 1500 psi	0.17 cu. in.
2000 to 10,000 psi	0.12 cu. in.
Wetted Parts Material.....	17-4 PH Stainless
Type	Absolute or Gage***
Weight	10 oz. (50 psi)
Case Material	Stainless Steel

**INTERNALLY AMPLIFIED
 UNITS (Optional)**

Outputs Available	0-5VDC, 4-20mA	4-20mA Intrinsically safe
Additional Length.....	1.12" (2.84 cm)	2.0" (5.08 cm)

NOTES * 0.5 psi (35 mbar) is not available in absolute pressure
 ** Output for 1 and 2 psi units is 1mV/V/psi minimum.
 *** Gage pressure units greater than 500 psi (35 bar) are sealed at atmospheric pressure.

General Information

How to order (See Pg. AP-19)
 Gage/Absolute pressure selection flow chart (See Pg. PR-1)