

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 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)

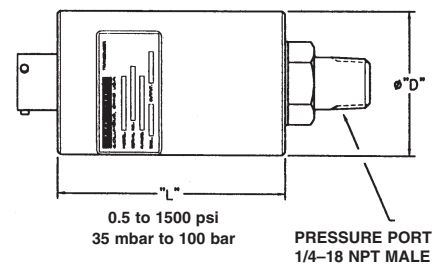
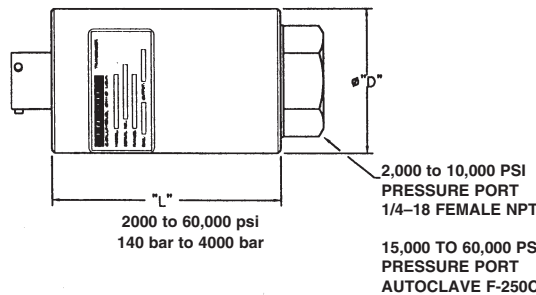
Available Ranges*	D"	L"
0.5; 1; 2; 5 psig	2.25 (5.72 cm)	2.42 (6.15 cm)
10; <b>15</b> psig	1.50 (3.81 cm)	2.35 (5.97 cm)
<b>25</b> ; 50; 75; 100; 150; <b>200</b> ;		
300; <b>500</b> psig	1.5 (3.81 cm)	2.35 (5.97 cm)
750; <b>1000</b> ; 1500; psig	1.5 (3.81 cm)	2.35 (5.97 cm)
2000; <b>3000</b> ; <b>5000</b> ; 7500;		
<b>10,000</b> psig	1.5 (3.81 cm)	2.39 (6.07 cm)
15,000; 20,000; 30,000;		
50,000; 60,000 psig	1.5 (3.81 cm)	2.21 (5.61 cm)

\*Stocked ranges are in bold face print.

\*\*Consult Sensotec

### Model Z Absolute (Order Code AP132)

Available Ranges*	D"	L"
0.5; 5 psia	2.25 (5.72 cm)	2.09 (5.31 cm)
10; <b>15</b> ; <b>25</b> ; 50; 75; <b>100</b> ; 150;		
<b>200</b> ; 300; <b>500</b> ; 750;		
<b>1000</b> ; 1500 psia	1.5 (3.81 cm)	2.35 (5.97 cm)
2000; <b>3000</b> ; <b>5000</b> ; 7500;		
<b>10,000</b> psia	1.5 (3.81 cm)	2.39 (6.07 cm)
15,000; 20,000; 30,000;		
50,000; 60,000 psia	1.5 (3.81 cm)	2.21 (5.61 cm)



## Options (See Appendix)

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

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

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

1-800-848-6564

Honeywell  
SENSOTEC

www.honeywell.com/sensing

## Model Z

Gage: Order Code AP131  
 Absolute: Order Code AP132

<b>PERFORMANCE</b>	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	
<b>ENVIRONMENTAL</b>	Temperature, Operating		
	1 to 15000 psi .....	-100° to 325° F (-73° to 162° C)	
	20000 to 60000 psi .....	-100° to 250° F (-73° to 95°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)	
<b>ELECTRICAL</b>	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.		
<b>MECHANICAL</b>	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		
<b>INTERNALLY AMPLIFIED UNITS (Optional)</b>	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)



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