

## STANDARD FEATURES

- Accuracy  $\pm 0.05\%$  F.S. or better
- Absolute, gauge, vacuum and compound
- 0/5, 0/10Vac or 4-20mA output
- NEMA 4X housing
- External zero and span adjustment
- Broad pressure media compatibility
- 316SS and Inconel wetted materials

## OPTIONAL FEATURES

- Isolated 4-wire voltage output
- 2-wire 4-20mA output
- Bendix PTO connector
- Pipe/wall mounting brackets
- Vented housing
- VCR pressure fittings

The Heise® HPO pressure transducer is a high precision, high level output pressure transducer which offers a broad selection of pressure ranges and media compatibility.



## PRODUCT SPECIFICATIONS

### PERFORMANCE SPECIFICATIONS

#### Accuracy

Within  $\pm 0.05\%$  of span including non-linearity, hysteresis and non-repeatability at reference conditions (72°F)

#### Temperature Effects

Storage: -40 to 200°F

Operating: -40 to 150°F

Compensated Range: 20 to 120°F

Temperature Coefficients:

$\pm 0.004\%$  FS per °F from 72°F

Thermal Repeatability:  $\pm 0.025\%$  FS (typical)

#### Response Time

3ms (typical)

#### Frequency Response

300 Hz

#### Warm-up Time

5 minutes to rated accuracy, 30 minutes to full stability

#### Shock

1000 G in 3 mutually perpendicular axis – no effect on calibration

#### Case Material

High impact ABS

### FUNCTIONAL CHARACTERISTICS

#### Service

Gas, vapor or liquid

#### Pressure Ranges

0-5 psi through 0-10,000 psi or equivalent metric ranges

(see Price Sheet HPO/PS for complete range listings)

#### Pressure Types

Gauge, absolute, vacuum and compound

#### Overpressure Limit

4 times span 0/5 to 0/250 psi

1.3 times span 0/300 to 0/10,000 psi

#### Sensor Volume

Approximately 4 cc to 250 psi

Approximately .38 cc above 250 psi

#### Volumetric Displacement

Approximately 0.5 cc to 250 psi

Negligible for ranges over 250 psi

#### Mounting Position Effect

Less than the values indicated below per 30° inclination in any plane for zero only – no effect on span

Up to 250 psi: 0.05% of span (max)

Over 250 psi: 0.3% of span (max)

Note: Correctable by zero adjustment

#### Output Signals

0/5Vdc, 0/10Vdc, -5/+5Vdc (3 wire or optional 4 wire), or 4-20mA (2 wire)

#### Resolution

$\pm 0.01\%$  FSO

#### Power Requirements

20-40Vdc (voltage output)

12-40Vdc (current output)

#### Power Supply Effect

Negligible over operating range

### PHYSICAL CHARACTERISTICS

#### Zero Adjustment

Extremely accessible  $\pm 3\%$  FS (typical)

#### Span Adjustment

Extremely accessible  $\pm 3\%$  FS (typical)

#### Wetted Materials

Inconel 718 and 300 Series stainless steel

#### Process Connection

$\frac{1}{4}$  male NPT through 5000 psi

$\frac{9}{16}$ -18 UNF-2B high pressure over 5000 psi

#### Electrical Connector

3 foot pigtail – standard

Bendix PTO – optional

#### Housing

304 stainless steel, sealed (NEMA 4X) with vent through pigtail connector

#### Mounting

Stem, optional pipe/wall mounting bracket

#### Weight

10 oz.

### ORDERING INFORMATION

TO ORDER PLEASE SPECIFY THE FOLLOWING:

#### Model

HPO

#### Range

Full range list available on price sheet HPO/PS

#### Pressure Type

Gauge, compound, absolute or vacuum

#### Electrical Connector

Standard pigtail, optional Bendix

#### Output

0/5Vdc, 0/10Vdc, -5/+5Vdc or 4-20mA

#### Specify

3 wire or optional 4 wire isolated output for voltage units

#### Pressure Connections

$\frac{1}{4}$  NPTM,  $\frac{1}{8}$  NPTF standard to 5000 psi, Aminco  $\frac{1}{16}$ -18 UNF-2B for ranges from 5001-10,000 psi

Contact factory for other connection requirements

#### Options

Bendix connector, mounting bracket, special cleaning, atmospheric reference port, atmospheric port with  $\frac{1}{8}$  NPTM fitting

## STANDARD RANGES

psi	Gauge & Absolute
5	
10	
15	
20	
30	
50	
60	
100	
150	
200	
300	
500	
600	
800	
1000	
1500	
2000	
2500	
3000	
4000	
5000	
6000	
10,000	

Vacuum: 5, 10, 14.7 psi

## DIMENSIONS (Inches)

