

Model HPK Compact Precision Pressure Transducer



LOOK FOR THIS
AGENCY MARK ON
OUR PRODUCTS

APPLICATIONS

Engine / Turbine Test Stands, Remote Monitoring Systems, On-Vehicle Test Installations.

FEATURES

- *Very Compact Design*
- *High Accuracy*
- *All Stainless Steel Wetted Materials*
- *Standard Nine-Point NIST Traceable Calibration Report*

The Heise HPK compact precision pressure transducer is ideal for measuring and controlling challenging hydraulic and pneumatic applications. This is accomplished through the use of a unique digital compensation process. The high-accuracy and performance combined with its rugged construction provides the user with a reliable and safe sensor platform. Each product is provided with an individual calibration test certificate.

PERFORMANCE SPECIFICATIONS

Analog Output (4-20mA / 0-5Vdc / 0-10Vdc):
Accuracy: $\pm 0.15\%$ F.S. (includes zero/span offsets, non-linearity, hysteresis and repeatability)
Temperature Effects:
Zero / Span: $\pm 0.01\%$ F.S. /°C – from 23°C (73.4°F) reference temperature
Stability: $< \pm 0.25\%$ span/year
Durability: Tested to 10 million cycles
Vibration: 20g (IEC 68-2-6 and IEC 68-2-36)
Shock: 1000g (IEC 68-2-32)
Response Time: 4msec (10-90%)
Position Effect: None
Output Resolution: $\pm 0.03\%$ F.S.

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:
Storage: -40 to 105°C (-40 to 221°F)
Operating: -20 to 85°C (-4 to 185°F)
Compensated: -10 to 80°C (14 to 176°F)
Humidity: 0-95% RH (Non-Condensing)

FUNCTIONAL SPECIFICATIONS

Proof Pressure: 2X Range (2000 psi & below)
1.5X Range (3000 to 5000 psi)
1.2X Range (7500 psi & above)
Burst Pressure: 8X Range (2000 psi & below)
3X Range (3000 psi to 5000 psi)
1.5X Range (7500 psi & above)
Insulation Voltage: 50Vdc 100M Ω min
CE Compliance: EN61326-1 2006, EN61326-2-3 2006
EU RoHS Compliance

ELECTRICAL SPECIFICATIONS

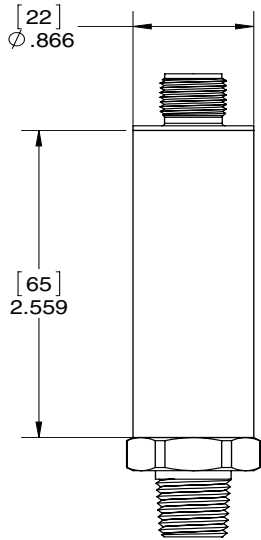
Output Signals: 4-20mA / 0-5Vdc / 0-10Vdc
Supply Voltage: 10-32Vdc (4-20mA Version); 2 wires
13-32Vdc (Voltage Versions); 3 wires
Circuit Protection: Overvoltage and reverse polarity protection 36V
Insulation Resistance: $< 100\text{M}\Omega$ @ 30V

PHYSICAL SPECIFICATIONS

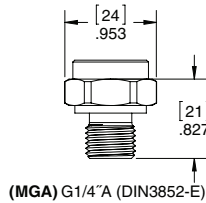
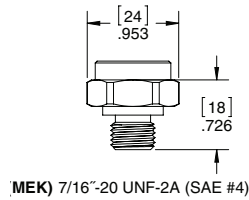
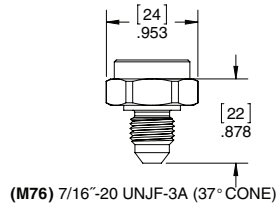
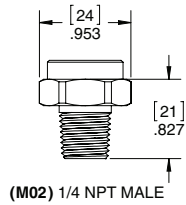
Enclosure: 304SS
Ingress Rating: IP65 (Ranges 300 psi & below)
IP67 (Ranges above 300 psi)
Electrical Termination: Refer to "How to Order" section
Pressure Connection: Refer to "How to Order" section
Weight: Approx. 120 grams (3.86 ounces)
Media: Fluids and gases compatible with 304SS (pressure connection) and 17-4 pH SS (sensor diaphragm)

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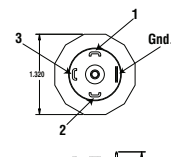
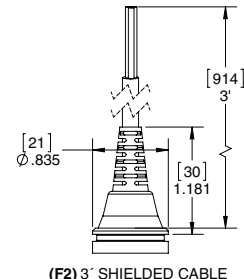
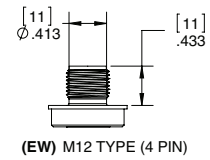
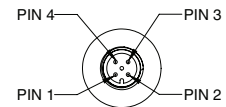
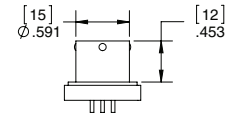
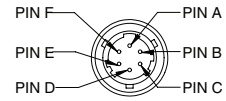
DIMENSIONS



PRESSURE CONNECTIONS



ELECTRICAL TERMINATIONS



Part Number Description:

HPK	2	M02	42	EW	100#G	XNH
Type Configuration HPK Series	Accuracy (2) ±0.15%	Pressure Connection/Location (M02) 1/4 NPT-male (M76)* 7/16-20 UNJF-3A 37° Cone (MEK) 7/16-20 UNF-2A (SAE #4) (MGA) 1/4 A (DIN3852-E)	Output Signal (42) 4-20mA (05) 0-5 Vdc (10) 0-10 Vdc	Electrical Connection (B6) 6 Pin Bendix (MIL-C-26482) (EW) M12 Type 4 pin (F2) 3' Shielded Cable (DN) Hirschmann 43650-A	Pressure Ranges Gauge 15#G = 0/15 psig 30#G = 0/30 psig 50#G = 0/50 psig 100#G = 0/100 psig 150#G = 0/150 psig 300#G = 0/300 psig 500#G = 0/500 psig 1000#G = 0/1000 psig 1500#G = 0/1500 psig 3000#G = 0/3000 psig 5000#G = 0/5000 psig 7500#G = 0/7500 psig 10,000#G = 0/10,000 psig 15,000#G = 0/15,000 psig 20,000#G = 0/20,000 psig	Optional X Variations (XRH) = NIST Traceable 9 Point Calibration Chart* (XNH) = Wired Stainless Steel Tagging (X6B) = Oxygen Cleaning *Must be included in product code to receive; no charge

* Only available >1000 psi

Note: Consult factory for special ranges or for other units (ie. bar / mPa / kPa)