TELEDYNE HASTINGS PIEZO VACUUM TRANSDUCER MODULE NSTRUMENTS

Model HPM-760S

FEATURES

- Economical
- Absolute Pressure Measurement, Independent of Gas Composition
- Fast Response and Linear Voltage or Current Output
- Zero and Span Adjustable
- Compact Size
- 0.1 to 999 Torr Range
- Stand Alone Operation with 15 to 30 VDC Input
- All Wetted Vacuum Surface Materials 316 Stainless Steel
- Digital Power Supply/ Display with Dual Hi-Lo Control Set Points (Optional: HPM-760 Plus)

APPLICATIONS

- Cryogenics
- Thermal Food Containers
- Vacuum Furnaces
- · Pharmaceutical Production
- Freeze Drying
- Agricultural Processes
- Air Conditioning
- Accelerators
- · Plasma Coatings
- · Refrigeration (HVAC)
- · Glove Boxes
- Appliance Manufacturing



Model HPM-760S

DESIGN FEATURES

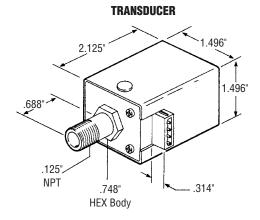
The HPM-760S module is an exceptionally stable, accurate and repeatable absolute pressure gauge. The output signal is a highly linear voltage or current signal suitable for many process control applications. As an absolute pressure gauge, readings are unaffected by gas composition. This compact instrument is constructed of 316 stainless steel on all wetted surfaces. The sensor is available as a stand-alone instrument, or may be configured with the optional Digital Power Supply featuring dual hi-lo control set points. This is an economical sensor alternative to higher cost systems.

The 760S module is a rugged piezoresistive transducer on a silicon chip. The chip includes a sealed vacuum reference, a resistive bridge circuit, and a temperature compensation network that provides the outstanding accuracy and stability.

This instrument covers the range of 0.1 to 999 Torr. The input voltage requirement is 15 to 30 VDC. Optional outputs are available for a variety of process controls (see Table of Operational Options).



MODEL HPM-760S



Selection Chart

The HPM-760S is shipped with one connector. Additional 8-ft. cable is available separately. Other lengths may be ordered.

Table of Operational Options

Option-01	0-1000 Torr @ 0-5 VDC Linear Output
Option-02	0-1000 Torr @ 0-10 VDC Linear Output
Option-03	0-1000 Torr @ 2-10 mA
Option-04	0-1000 Torr @ 4-20 mA

Optional Fitting Configurations

Α	1/8" NPT	
В	KF-16	
С	KF-25	
D	VCR-4	

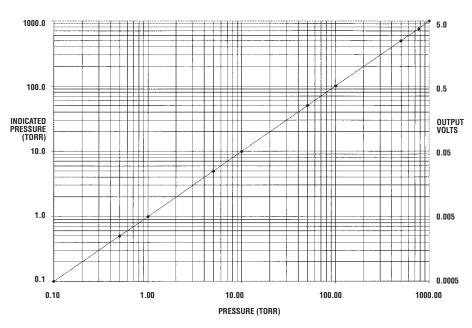
Example: HPM-760S-02-A is a 0-10 VDC output with 1/8" NPT fitting.

Pressure Measurement Range HPM-760S 10⁻³ 10⁻² 10⁻¹ 10⁰ 10⁺¹ 10⁺² 10⁺³ Reading in Torr

Range	0.1 - 1000 Torr
Accuracy	<u>+</u> 0.25% F.S. ¹
Response Time	< 2 sec
Maximum Over Pressure	30 psig
Operating Temperature	0-50°C
Input Voltage	15 to 30 VDC
Input Power	15 mA @ 24 VDC (no-load)
Output Impedance	1K ohms minimum
Wetted Materials	316 stainless steel

Teledyne Hastings Instruments reserves the right to change or modify the design of its equipment without any obligation to provide notification of change or intent to change.

Linear Piezoresistive Transducer 760S vs. Pressure



Your Customer Service Representative



TELEDYNE INSTRUMENTS

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