

Product Bulletin

85HP Series Hermetic Pressure Transducer

Current Output, High Accuracy, Enhanced Package



The 85HP Series is ideally suited for severe industrial OEM applications. This is a high accuracy, high level mA output that requires no end user

amplification. Housed in corrosion resistant stainless steel, the 85HP includes a hermetic front end with a variety of electrical connectors. This

transducer is available in sealed gage and vented gage from 15 psi up to 30,000 psi with several package options.

Features

High Accuracy +/- 0.25% F.S. typ.....
Static Error Band
Low Total Error Band.....
(-20°C to +100°C)
Stainless Steel Housing.....
EMC Protected to 300V/m.....
Wide Operating Temperature Range.....
(-40°C up to +100°C)
Reverse Polarity Protection.....
Small Size.....
Repeatability <0.05%.....

Benefits

*Precise Measurement for Severe Industrial
OEM Applications*
*High Accuracy Over Wide
Operating Temperature Range*
Media Compatible
High Reliability in Noisy Environments
Wide Range of Applications

Robust Installation
More Mounting Options
Measurement Confidence

Applications

- Compressors & Pumps
- Hydraulics & Pneumatics
- Agriculture & Construction Equipment
- Transportation & Off Road Vehicles
- Engine Controls & Monitors
- HVAC /Refrigeration
- Alternative Energy Management
- Load Management
- Process Control & Automation

Technical Specifications

Pressure Ranges

0-15 psig through 0-500 psig
0-500 psis through 0-30,000 psis

Performance

Accuracy... +/- 0.25% F.S. typ
(static error band @ 25°C)
Total Thermal Effect
Standard:
+/- 0.01% F.S. / °C typ
(-20°C to +100°C)
Operating Temperature:
-40°C to +100°C
Storage Temperature:
-40°C to +120°C

Electrical

Vs... 10 - 32Vdc
Io... 4 - 20mA
Output Load Range..... (Vs - 10Vdc)
20mA
Output Response Time..... 2ms
Overvoltage Protection..... 32Vdc
Reverse Voltage Protection..... -30Vdc
Short Circuit Protected Yes

Physical

Proof Pressure
Up to 1,500 psi..... 2X
Up to 7,000 psi..... 1.5X
Up to 30,000 psi..... 1.2X

Burst Pressure
3X minimum

Cycle Life
100M F.S. cycles,
25-80°C

Random Vibration
(up to 1kHz)
20g

Drop (any axis)
1m

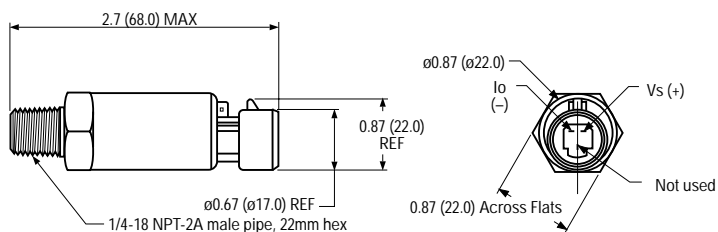
Electrical Connection
Packard Metri-Pack™
Hirschman DIN
Wire Leads
Hirschman Mini DIN
Truncated cone cable

85HP Series

Hermetic Pressure Transducer

Dimensions (Typical)

in (mm)



Ordering Information

EXAMPLE:

Series	85HP	06	2	Y	00500	S	S	0	A
Pressure Connection	1/4-18NPT-2A male pipe, 22mm								
Electrical Connection	Standard Packard Metri-Pack								
Device Input-Output	Power Input: 10-32Vdc, Device Output 4-20mA								
Pressure Range	0-0500psi								
Pressure Reference	Sealed Gage								
EMC	Standard-(20V/m, 1MHz-400MHz)								
Potted Wire Lead Length	0								
Total Thermal Effect Standard									

STANDARD OPTIONS		SPECIAL OPTIONS	
Series	85HP	(Contact factory for availability)	
Pressure Connection	05 3/8 - 24UNF-2A male o-ring thread per SAE J514, 22mm hex 06 1/4 - 18NPT-2A male pipe, 22mm hex 07 7/16 - 20UNF-2A male o-ring per SAE J514, 22mm hex 12 M14 x 1.5 male o-ring thread per ISO 6149, 22mm hex 14 1/8-27 NPT-2A male pipe, 22mm hex		
Electrical Connection	2 Standard Packard Metri-Pack™ 3 Hirschman DIN 4 Wire leads	6 Hirschman DIN 7 Truncated cone cable	
Device Input - Output	Y Vs... 10-32Vdc Io... 4-20mA		
Pressure Ranges	0-15 psig through 0-500 psig 0-500 psis through 0-30,000 psis (psis = sealed gage) (psig = vented gage)		
Pressure Reference	S Sealed gage G Vented gage		
EMC	S 20v/m, 1MHz-400Mhz		
Wire Leads	0 No wire (Packard, DIN) 1 1 meter length 2 2 meter length		
Total Thermal Effect	A +/-0.01% F.S./°C typ (-20°C to +100°C)		

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