



85HP/86HP Series

Piezoresistive Pressure Sensor Current Output, High Accuracy, Hermetic

WORLD CLASS PERFORMANCE

The 85HP and 86HP series sensors are ideally suited for severe industrial OEM applications requiring long wire runs. Housed in corrosion resistant stainless steel, these sensors include a hermetic front end with a variety of electrical and pressure connection options.

Sensata Technologies has been a leading global supplier of pressure sensors & switches for over 50 years.

Features & Benefits

- High accuracy over wide operating temperature range.
- Low total error band
- Media compatible stainless steel housing
- Repeatability < 0.05%
- Wide operating temperature range
- Small size

Applications

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

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 (-20°C to 100°C)

85HP

Option A: (Standard Accuracy) ±0.02% F.S. / °C typ

86HF

Option B:

±0.008% F.S./°C typ

Option C:

±0.006% F.S./°C typ

Operating Temperature: -40°C to +100°C

Strorage Temperature: -40°C to $+120^{\circ}\text{C}$

Electrical

 Supply Voltage
 10-32 Vdc

 Output Current
 4-20 mA

 Output Load range
 (Vs - 10 Vdc)

 20 mA
 20 mA

 Output Response Time
 2 ms

 Overvoltage Protection
 32 Vdc

 Reverse Voltage Protection
 -30 Vdc

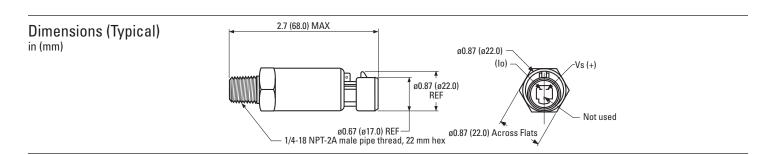
 Short Circuit Protected
 Yes

Physical

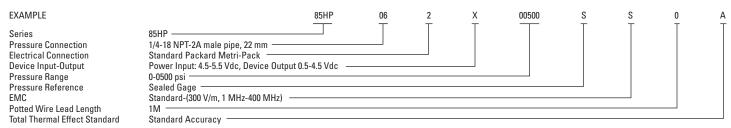
The World Depends on Sensors and Controls

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Ordering Information



STANDARD OPTIONS Series	85HP Standard Accuracy	86HP High Accuracy		SPECIAL OPTIONS (Contact factory for availability)
Pressure Connection	06 1/4-18 NPT-2A male pipe, 22 mm h	NF-2A male o-ring thread per SAE J514, 22 mm hex 12 M14 x 1.5 male o-ring thread per ISO 6149, 22 mm hex		
Electrical Connection	 Standard Packard Metri-Pack™ Hirschman Mini DIN (GDSN 307) 	4 Wire leads 6 Hirschman DIN (43650)	7 Truncated cone cable	
Device Input-Output	Supply Voltage Output Cu Y Vs 10-32 Vdc lo 4-20			
Pressure Ranges	0-15 psig through 0-500 psig 0-500 psis through 0-30,000 psis (psis - sealed gage) (psig - vented gage) Metric ranges in bar (M 0010 - 10 bar)			
Pressure Reference	S Sealed gage (Specify for > 500 psi)	G Vented gage		1
EMC	S 20 v/m, 1 MHz-400 MHz			1
Wire Leads	O No wire (Packard, DIN)	1 1 meter length	2 2 meter length	
Total Thermal Effect (-20°C TO +100°C)	85HP A ±0.01% F.S./°C typ	86HP B ±0.008% F.S./°C typ C ±0.006% F.S./°C typ		

Packard Metri-Pack is a trademark of Delphi Packard Electric Systems



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