Sensata Technologies

2HMP Series

HVAC & Refrigeration Pressure Sensor

FEATURES

- Rugged seal ideal for outdoor environments
- Industry leading accuracy over broad temperature range
- Electrical isolation helps protect against electrical shocks or equipment damage
- Media isolation prevents abnormal operation during thermal shock
- Media and electrical isolation protects against thermal and electrical shock
- Outstanding EMC/ESD performance
- Low cost design for OEM applications
- MEMS sensing technology
- Integrated connector or flying leads
- Flexible threaded fitting or braze tube pressure connection and mounting options

APPLICATIONS

- Commercial refrigeration
- Variable speed HVAC
- Transport refrigeration
- Chillers
- Heat pumps
- Variable refrigerant flow (VRF)

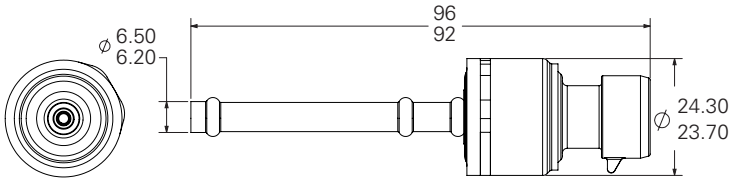
INTRODUCTION

The Sensata Technologies 2HMP series is ideal for demanding air conditioning, refrigeration and industrial applications where long-term reliability and accuracy is a must. The 2HMP provides best in class accuracy over temperature, in a reliable, hermetic design at a competitive price. Sensata Technologies has been a leading global supplier of pressure sensors and switches for over 50 years.

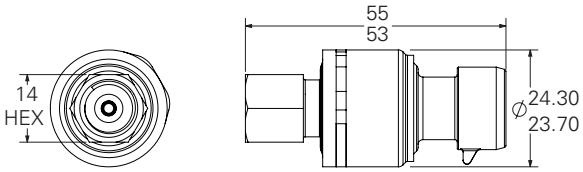
TECHNICAL SPECIFICATIONS	
Pressure Ranges	0 to 100 psi through 0 to 750 psi, 0 to 1MPa through 0 to 5MPa
Performance Accuracy	± 1% F.S. typical over -25°C to 125°C (-13°F to 257°F)
Operating Temperature	-40°C to 125°C (-40°F to 257°F)
Storage Temperature	-40°C to 150°C (-40°F to 302°F)
Proof Pressure	1000 psi, 6.9 MPa
Burst Pressure	3600 psi, 24.8 MPa
Cycle Life	1 million F.S. cycles
Vibration	11 g (50 to 2000 Hz)
Drop (any Axis)	1 m
Electrical Connection	IP67 available
Wetted Materials	304L stainless steel brass/copper other materials available

ELECTRICAL SPECIFICATIONS	
Supply Voltage (V_{IN})	4.5 VDC to 5.5 VDC
Output Voltage (V_{OUT})	0.5 VDC to 4.5 VDC typical
Supply Current	8 mA max @ 5 VDC with no load
Output Current	2.5 mA max sink or source
Output Load	10K ohms min
Output Response Time	2 ms, additional options available
Overvoltage Protection	16 VDC
Reverse Voltage	-14 VDC
Short Circuit Protected	Yes
EMC (IEC62000-4-20)	100 V/m
ESD (IEC 61000-4-2)	8 kV contact, 15 kV air
Electrically Isolated Housing	1800VAC for 1 second
Agency Approvals	UL873 (pending), ROHS compliant

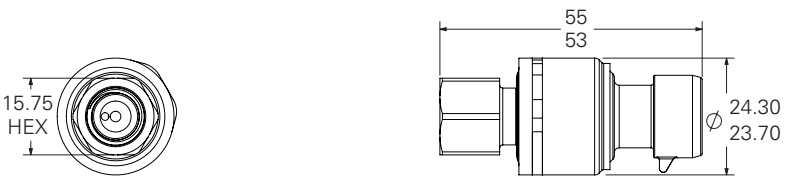
STANDARD CONFIGURATIONS (mm)



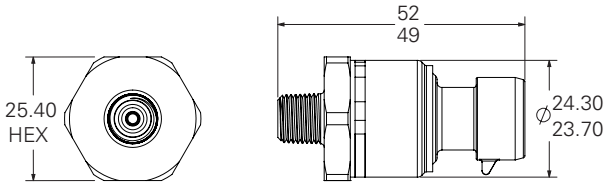
BRAZE IN FITTING



7/16-20 FLARE FITTING



7/16-20 SCHRADER DEFLATOR FITTING



1/8-27 NPTF FITTING

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The World Depends on Sensors and Controls