

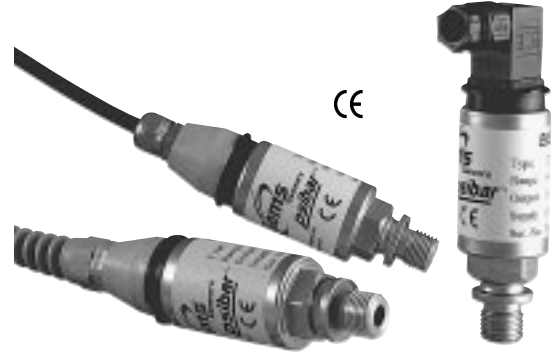
Psibar Series — Long-Term Stability and Repeatability at OEM Prices

- ▶ <0.2% Span/1 Year Drift
- ▶ Four Times Over Pressure Capability
- ▶ High Burst Pressure

Extensive research and development, combined with a significant investment in advanced manufacturing techniques, has resulted in the Psibar Series — high-performance pressure sensors dedicated to OEM applications. Psibar Series transmitters are resistant to the real world challenges that would render lesser products useless.

Specifications

| | |
|----------------------------|---|
| Input | |
| Pressure Range | Up to 400 bar (6000 psi), gauge and compound |
| Pressure Limit | 4 times rated pressure (<1% zero shift) |
| Burst Pressure | >10 times rated pressure |
| Fatigue Life | 100 million full pressure reversals |
| Performance | |
| Typical static error band | ±0.5% span |
| Typical thermal error band | ±2% span over -20° to +80°C (-4 to +176°F) |
| Typical long term drift | <±0.2% span over 1 year |
| Operable Temperature Range | -40°C to +121°C (-40°F to +250°F) (At temperatures over 100°C (212°F), mA supply voltage limited to 24V) IP65 cable -20°C to +80°C (-4°F to +176°F) waterproof cable -20°C to +50°C (-4°F to +122°F) |
| Environmental | |
| Acceleration tolerance | For 100g steady acceleration in any direction maximum 0.0362%/span/g for 0.75 bar/11 psi range decreasing logarithmically with pressure range to 0.00069% span/g for 400 bar/6000 psi range. |
| Vibration tolerance | 35g peak sinusoidal, 5Hz to 2kHz. 12.5mm double amplitude not greater than 0.5%/span/g peak. |
| Mechanical shock | Withstands free fall test to BS2011: Part 1.2Ed (IEC 68-2-32, Procedure 1, severity 1000mm, two free falls in each of 3 mutually perpendicular orientations) without damage. |
| Enclosure protection | IP65 or IP67 (NEMA 4 or NEMA 6) |
| Excitation Voltage | |
| Voltage output | Min. 1.5 VDC above max. span, max. 35 VDC (ex. 0-5 V span, 6.5 to 35 VDC supply) |
| Current output | 7-35 VDC |
| Pressure Connection | NPT, BSP or UNF standards |
| Wetted Parts | 17-4 PH Stainless Steel |



psibar™

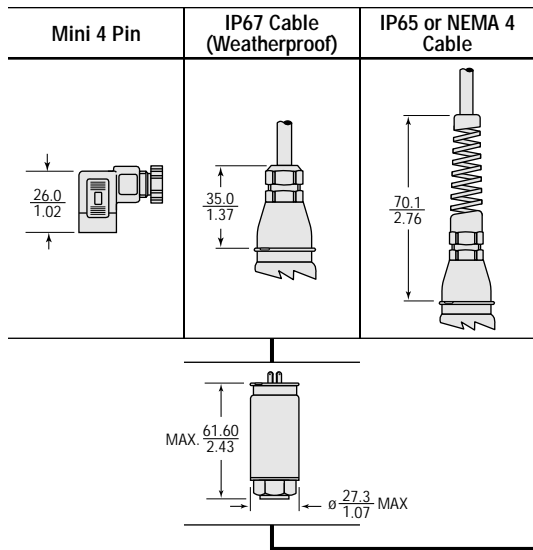
Electromagnetic Capability

Meets the requirement for CE marking of EN50081-2 for emissions and EN50082-2 for susceptibility.

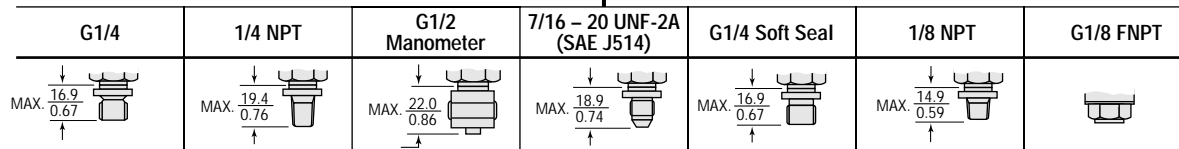
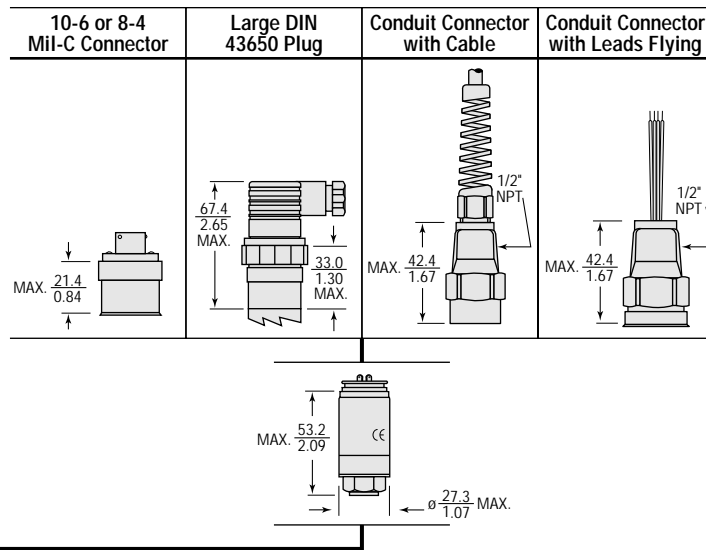
- Test Data:
- EN61000-4-2 Electrostatic Discharge. 8kV air discharge, 4kV contact discharge. Unit survived.
 - ENV50140 Radiated RF Susceptibility. 10V/m, 80MHz-1GHz, 1kHz mod. Maximum recorded output error was <±1%
 - ENV50204 Radiated RF Susceptibility to Mobile Telephones. 10V/m, 900MHz. Maximum recorded output error was <±1%.
 - EN61000-4-4 Fast Burst Transient. 2kV, 5/50ns, 5kHz for 1 minute. Unit survived.
 - ENV50141 Conducted RF Susceptibility. 10Vms, 1kHz mod, 150kHz - 80MHz. Maximum recorded output error was <±1%

Dimensions

Psibar 1200 Series



Psibar 1600 Series



How To Order

Use the **Bold** characters from the chart below to construct a product code.

