



DAVISOL DVS-PR310 VersaLine Industrial Pressure Sensor

Eliminate complex integrations and ensure absolute reliability in the most severe industrial environments. The DAVISOL DVS-PR310 VersaLine delivers uncompromising precision pressure measurement, engineered with an isolated stainless steel diaphragm to withstand extreme conditions, dynamic shocks, and highly corrosive media.



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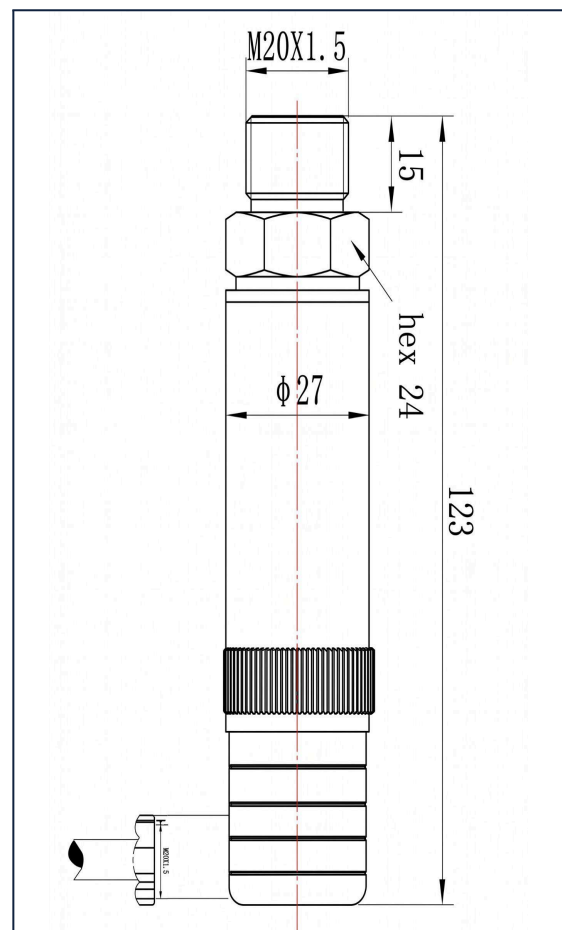


Principle and Characteristics

This robust industrial sensor utilizes an advanced piezoresistive core combined with intelligent circuitry that seamlessly transforms millivolt signals into standard outputs for direct integration with DCS and PLCs. Featuring full stainless steel construction and elite EMI protection, it ensures high-fidelity data transmission. Built for heavy-duty resilience, it boasts exceptional anti-vibration properties (10–500Hz 25g), 50g mechanical shock resistance, and extreme 200% FS overload capacity, ensuring continuous operational uptime with up to IP68-rated protection.

Some Product Applications

- Heavy hydraulic and pneumatic systems
- Petrochemical processing pipelines
- Industrial compressors and pumping stations
- Offshore facilities and wind power



Technical Specifications

Category	Parameter	Specification
Pressure Sensing	Pressure Range	0.1 to 60 MPa (Customizable up to 8000 psi)
	Accuracy	±0.5% FS (Typical) @ 25°C (Available down to ±0.1% FS)
	Long-Term Stability	±0.2% FS / Year
	Overload & Burst	Overload: 200% FS Bursting: 300% FS
	Thermal Drift	Zero: ±0.03% FS/°C Full Scale: ±0.03% FS/°C
Power & Output	Power Supply	9–36 VDC
	Output Signals	0–5V, 1–5V, 4–20mA
Mechanical	Process Connection	M20x1.5, G1/2, (Custom threads upon request)
	Measuring Medium	Liquid, gas, vapor compatible with SUS304 / SS316L
Environmental	Operating Temperatures	Medium: –40 to 125°C Ambient: –40 to 85°C
	Protection Rating	IP65 (Hirschmann), IP67 (PG7), IP68 (Direct Cable)

A full suite of operational enhancements, including high-temperature thermal siphons, digital local display meters (DLD-Series), stainless steel manifold valves, and armored extension cables, is available through DAVISOL.

R&D and Customization

At **DAVISOL**, we understand that standard off-the-shelf solutions don't always meet the rigorous demands of specialized heavy industry. Our dedicated R&D engineering team stands ready to deliver bespoke configurations of the DVS-PR310 VersaLine tailored precisely to your operational needs.

From extreme temperature compensation arrays and non-standard process threads to specialized communication protocols (such as HART or Modbus RTU), we adapt our technology to fit your exact operational requirements. Our rapid-prototyping labs will collaborate directly with your team to turn complex requirements into a tailor-made device, delivered with speed and precision.

DAVISOL — Engineering that delivers.