



DAVISOL DVS-PR950 DP ProPrecision Differential Transmitter

Engineered for high-stakes flow and level measurement, the DAVISOL DVS-PR950 DP utilizes globally leading monocrystal silicon sensor technology to deliver platinum-level accuracy. With its advanced mechanical isolation and dual-compensation architecture, it represents the definitive golden standard for differential pressure applications across extreme industrial environments



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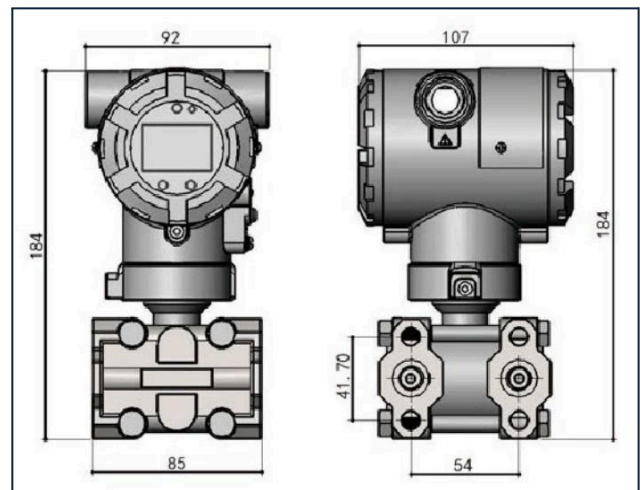


Some Product Applications

- Custody transfer flow measurement
- Pipeline oil, gas, and chemical billing
- Power plant steam drum level monitoring
- Distillation column differential pressure
- Advanced chemical processing reactors
- Complex vacuum drying systems
- Tank integrity and level derivations

Principle and Characteristics

This advanced differential transmitter achieves true $\pm 0.05\%$ FS accuracy by mechanically and thermally isolating its monocrystal silicon sensor from the process medium. Built with a highly modular microprocessor and HART protocol integration, it reduces temperature drift ($\leq \pm 0.04\%$ URL/10°C) and withstands one-way overpressure up to 25MPa. It features a rugged industrial housing with infrared wireless parameter setting, allowing safe configuration in explosive atmospheres without opening the casing.



Technical Specifications

Category	Parameter	Specification
Performance	Base Accuracy	$\pm 0.05\%$, $\pm 0.075\%$, $\pm 0.1\%$ (Includes Linearity, Hysteresis, Repeatability)
	Long-term Stability	$\pm 0.1\%$ / 3 years
	Static Pressure Effect	$\pm 0.05\%$ / 10MPa
	Ambient Temp Effect	$\leq \pm 0.04\%$ URL / 10°C
Operational Limits	Measurement Medium	Gas, Steam, Liquid
	Overpressure Resistance	One-way overpressure up to 25MPa (200% FS standard protection)
	Operating Temperatures	Ambient: -40°C to 85°C Medium: -40°C to 120°C
Electrical & Interface	Power Supply	10 to 36V DC (24V DC Recommended)
	Display Options	LCD (-20°C to 70°C) or OLED (-40°C to 80°C)
	Protocol & Configuration	HART Protocol Infrared wireless setting & one-button reset

A full suite of operational accessories, including 3-way/5-way stainless steel valve manifolds, condensate pots, HART field communicators, and capillary remote seals, is available through DAVISOL.

R&D and Customization

At **DAVISOL**, we understand that standard catalogs cannot always solve complex engineering bottlenecks. The DVS-PR950 DP is a highly adaptable platform supported by our dedicated R&D division, ready to conquer your most specific measurement challenges.

DAVISOL — Engineering that delivers.