



DVS-LT Series Advanced Submersible Level Transmitters

Serving as the frontline for industrial fluid monitoring, the DAVISOL DVS-LT Series aggregates continuous, high-precision hydrostatic level data across diverse applications. Powered by a state-of-the-art piezoresistive pressure sensor and a fully sealed amplifier circuit, it translates micro-pressure into standard analog signals directly to your local SCADA or PLC infrastructure without risking sensor degradation.



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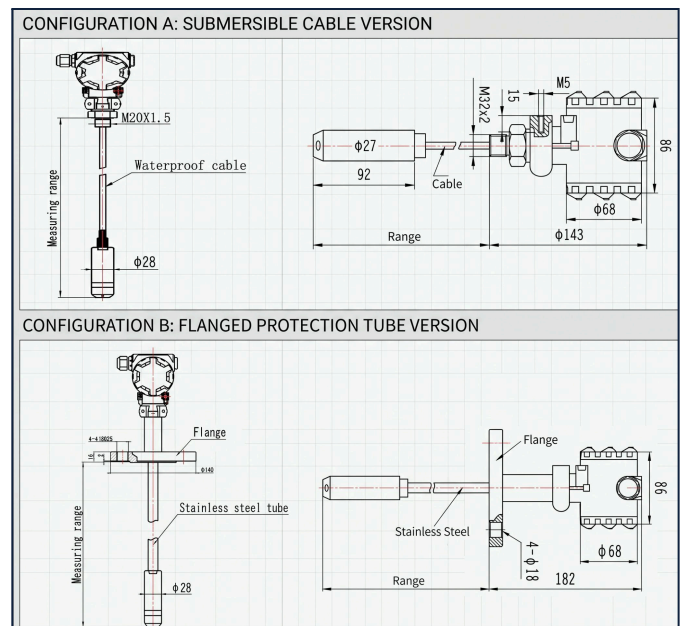
voltage output. Featuring hermetically sealed construction and anti-vibration characteristics, it provides robust, real-time data integration for both static reservoirs and volatile flowing environments.

Some Product Applications

- Municipal water & wastewater infrastructure
- Petrochemical & hydrocarbon storage
- Aggressive chemical processing
- Deep well and reservoir telemetry
- Open storage tank monitoring
- Heavy oil tank hydrostatic gauging

Principle and Characteristics

This advanced submersible series provides uncompromising reliability by precisely measuring liquid static pressure, which scales proportionally with depth. Built around a piezoresistive pressure sensor, the series offers distinct casing configurations (NBR, 316L Stainless Steel, or Anticorrosion Polymer) tailored to specific media. Encased in an IP68-rated housing with an Exiall CT6 Intrinsic Safety rating, it translates pressure into a 4-20mA or



Technical Specifications

Category	Parameter	Specification
System & Power	Power Supply	12–36 VDC
	Output Signal	4–20mA (2-wire) OR 0–5V / 1–5V (3-wire)
	Operating Temperature	Ambient: -40 °C to +85 °C Medium: -40 °C to +125 °C
	Compensated Temp Range	-10 °C to +70 °C
Performance	Pressure Range (mH ₂ O)	1, 2, 5, 10, 20, 50, 100, 200 (Varies by model)
	System Accuracy	±0.5% FS (Typical) / ±0.3% FS (High Precision)
	Pressure Type & Overpressure	Gauge 200% Full Scale (FS)
Mechanical & Housing	Wetted Materials	Housing: Stainless Steel Diaphragm: SS 316L Seal: Viton
	Protective Tube Material	NBR (LT310) / SS 316L (LT410) / Polymer (LT510)
	Enclosure Rating	IP68 (Submersible Sensor) / IP65 (Topside Connection Box)
	Explosion-Proof	Exia II CT6 (Intrinsic Safety)
	Installation Options	Stilling well, free-hanging, top-threaded, or bottom-flange mount

A full suite of operational accessories, including the KHU24 Float Level Switch, industrial overvoltage & lightning protection modules, application-specific submersible cables (PVC and wear-resistant PUR), and modular steel armour tubes for extreme depths, is available through DAVISOL.

R&D and Customization

At **DAVISOL**, we understand that standard off-the-shelf instrumentation often falls short of the stringent demands of complex industrial infrastructures. Our dedicated R&D engineering division stands ready to deliver bespoke configurations of the DVS-LT Series tailored to your exact realities.

From modifying housing metallurgy and exotic wetted parts for extreme chemical compatibility to engineering custom digital telemetry nodes (Industry 4.0/IoT), we engineer solutions to match your strictest mechanical and safety regulatory frameworks (CE, ATEX, IECEx).

DAVISOL — Engineering that delivers.