



DAVISOL DVS-WT750 PT FieldMesh Hazardous Industrial Sensor

Eliminate complex cabling and costly infrastructure. The DAVISOL DVS-WT750 PT delivers continuous, high-precision pressure and temperature monitoring in one intrinsically safe device. Powered by WirelessHART® mesh networking, it provides seamless remote data transmission and total process visibility in even the most critical Zone 0 hazardous environments.



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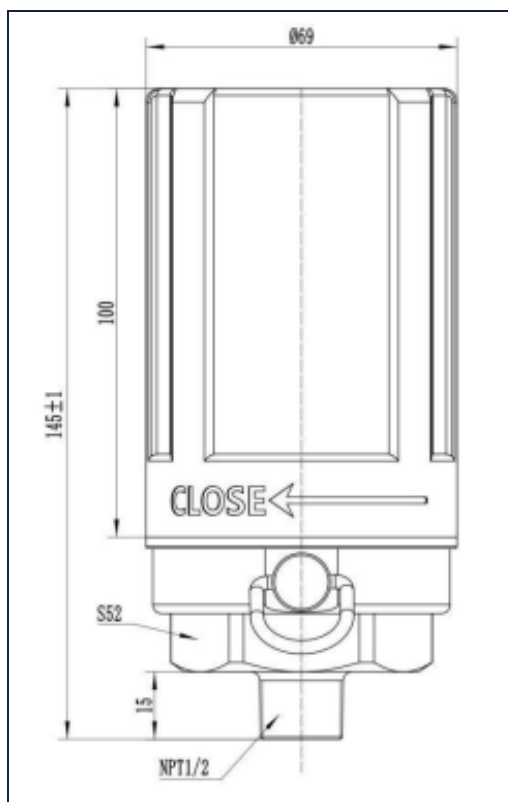


Principle and Characteristics

This intrinsically safe field sensor combines dual-variable pressure and temperature monitoring for real-time monitoring. Featuring a 316L stainless steel pressure inlet, rugged polymer housing, and WirelessHART® mesh connectivity, it ensures reliable data delivery across dense industrial facilities. Equipped with an internal USB port for rapid configuration, flexible burst rates, and a primary Saft LS33600 battery, it delivers consistent uptime with IP66-rated protection.

Some Product Applications

- Upstream & downstream oil & gas pipelines (Zone 0)
- Chemical & petrochemical processing vessels
- Remote pumping stations & fluid distribution
- Water & wastewater treatment filtration lines
- Pressurized gas pipelines & pneumatic networks
- Heat exchangers & industrial boiler systems
- Custody transfer & flow metering stations



Technical Specifications

Category	Parameter	Specification
Pressure Sensing	Pressure Range	0 ~ 33 bar (Optional ranges available)
	Pressure Accuracy	$\leq \pm 0.05\%$ FS
	Temperature Drift	$\leq \pm 0.25\%$ FS per 28°C change
	EMI Drift	$\leq \pm 1\%$ FS (per EN61326 standards)
	Overload Pressure	Maximum 120% FS
	Burst Pressure	$\geq 300\%$ FS
Temperature Sensing	Measurement Range	-30°C to 80°C
	Temperature Accuracy	$\leq \pm 3^\circ\text{C}$
Power & Battery	Power Supply	Disposable lithium battery (Model: LS33600; Brand: Saft)
	Battery Life	2 months (At 25°C with a rapid 1-second update rate; significantly longer at standard 10+ min intervals)
Wireless Communication	Protocol	WirelessHART® with Mesh function
	Operating Frequency	2.4 - 2.4835 GHz
	Transmission Distance	>100 meters (line of sight)

Category	Parameter	Specification
	Data Upload Interval (Burst Rate)	1s, 2s, 4s, 8s, 16s, 32s, or 1 to 60 minutes
	Network Configuration	Via USB configuration tool (Network ID & Join Key)
Mechanical	Enclosure Material	316L Stainless Steel (Inlet) / Engineering Polymer (Orange Enclosure)
	Pressure Connection	NPT ½" male thread
	Dimensions	Ø69mm x 145±1mm
Environmental & Hazardous Area	Hazardous Area Approval	Zone 0 explosion-proof and intrinsically safe.
	Operating Environment	-20°C to 60°C ambient operating temperature.
	Storage Environment	-40°C to 65°C.
	Protection Rating	IP66 (Optional

A full suite of operational accessories, including WirelessHART® industrial gateways, Saft replacement batteries, process manifolds, and thread adapters, 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 process applications. Our dedicated R&D engineering team stands ready to deliver bespoke configurations of the DVS-WT750 PT tailored precisely to your operational needs.

From specialized wetted materials (such as Hastelloy or PTFE for aggressive media) to custom firmware algorithms and direct SCADA/DCS/IoT integration, we adapt our technology to fit your exact process requirements.

DAVISOL — Engineering that delivers.