



DVS-TS320 ThermPoint Compact Temperature Transducer

Serving as the golden standard for rugged industrial telemetry, the DAVISOL DVS-TS320 integrates high-sensitivity temperature measurement directly into tight, high-vibration environments. Powered by advanced compensation circuitry and an all-welded stainless steel architecture, it delivers precise thermal data directly to your local SCADA, PLC, or automated control systems without faltering under extreme mechanical impact.



CONTACT US

<https://www.davisol.ch/>

sales@davisol.ch

+41 77 445 18 34

support@davisol.ch

Rue de la Prulay 47, Meyrin
Geneva, Switzerland

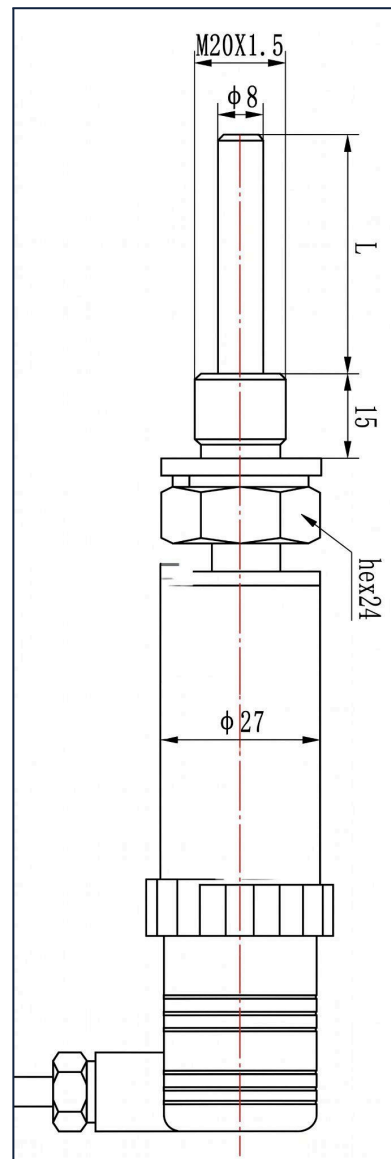
Some Product Applications

- Heavy engineering machinery monitoring
- Hydraulic block fluid temperature tracking
- Industrial pump and air compressor safety
- Wind turbine gearbox and nacelle telemetry
- Locomotive engine coolant systems
- District heating supply line monitoring



Principle and Characteristics

This compact transducer unifies temperature data acquisition from high-vibration environments, outputting clean, anti-jamming signals (4–20mA, 1–5V) directly from the sensor head. Built upon a 1Cr18Ni9Ti stainless steel architecture, it processes extreme thermal dynamics across a -50°C to 300°C range. Encased in a monolithic, high-strength enclosure, it features extreme pressure resistance and seamless OEM integration for severely restricted installation spaces.



Technical Specifications

Category	Parameter	Specification
System & Performance	Measuring Medium	Gas, liquid, or solid surfaces compatible with 1Cr18Ni9Ti stainless steel
	Temperature Range	-50°C to +300°C
	Accuracy	±0.5% FS
	Long-term Stability	≤ 0.2% FS / Year
Electrical & Outputs	Output Signals	4-20mA (2-wire), 1-5V / 0~5V (3-wire)
	Power Supply	12 VDC to 36 VDC
	Electrical Connection	Hirschmann connector, PG7 connector, Aviation connector, or Direct Cable
Mechanical & Housing	Protective Tube	Ø6, Ø8, Ø10, Ø12, Ø16 (Customizable)
	Process Connection	Universal Thread (e.g., 1/4 NPT) or Flange options
	Working Environment	Ambient Temp: -40°C to 85°C Humidity: 5% to 95%

A full suite of operational accessories, including compact machined solid-bar thermowells, pre-wired IP67 PUR aviation and Hirschmann cable assemblies, and high-grade stainless steel thread adapters, is available through DAVISOL.

R&D and Customization

At **DAVISOL**, we understand that standard off-the-shelf instrumentation cannot solve every complex mechanical topology. Our dedicated R&D engineering teams stand ready to deliver bespoke configurations of the DVS-TS320 Transducer tailored to your exact OEM architecture.

From ultra-short insertion depths for compact hydraulic manifolds to specialized automotive-grade electrical connectors and wetted parts machined from exotic alloys, we engineer solutions to match your strictest mechanical and environmental requirements.

DAVISOL — Engineering that delivers.