



DAVISOL DVS-TS380 ThermFlex Universal Temperature Transmitter

The DAVISOL DVS-TS380 converts Pt100 RTD and thermocouple inputs into stable 4–20mA analog signals. Encased in IP65 die-cast aluminum, it delivers high-accuracy, low-drift temperature monitoring for demanding industrial environments.



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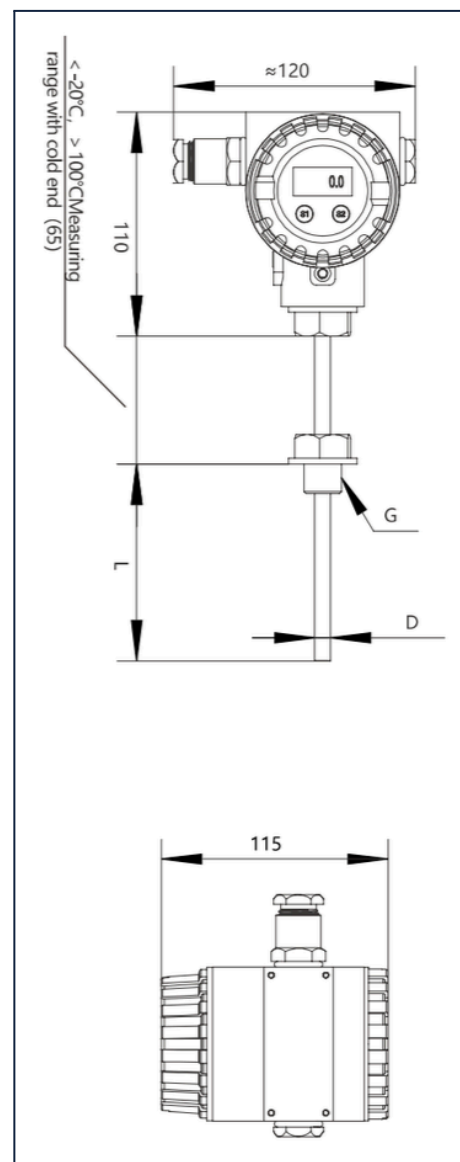


Principle and Characteristics

The DVS-TS380 delivers ultra-wide measurement capabilities (from -200°C to 1800°C) with precision signal conditioning at $\leq \pm 0.2\%$ FS accuracy. Featuring an IP65-rated, all metal die-cast aluminum housing and a rugged stainless steel 316 wetted probe, it is built to survive harsh plant environments. The dedicated internal circuitry translates raw thermal inputs into a stable 2-wire 4...20mA signal, with optional HART communication allowing for remote diagnostics, re-ranging, and calibration without process interruption.

Some Product Applications

- High-temperature process monitoring
- Heavy machinery thermal tracking
- Pipeline and fluid telemetry
- Boiler and compressor control
- Facility HVAC and utility monitoring
- Remote SCADA thermal integration



Technical Specifications

Category	Parameter	Specification
Measurement	Sensor Type	Pt100 Class A standard (Pt1000 and Thermocouples customizable)
	Measuring Range	-200°C to +1800°C (User-definable)
	Accuracy & Linearity	Accuracy: $\leq \pm 0.2\%$ FS Linearity: $\leq \pm 0.5\%$ FS
Electrical	Output Signal	2-wire 4...20 mA (Optional HART communication protocol)
	Supply Voltage	10...30 VDC
	Load Resistance	$\leq (U_s - 10V) / 0.02A$
Mechanical & Housing	Materials	Housing: Die-cast aluminum Wetted Parts: Stainless steel 316
	Enclosure Rating	IP65 dustproof and water-resistant
	Operating Temperatures	Ambient: -20°C to +80°C Storage: -30°C to +100°C

Accessories include 316L/Inconel thermowells, high-temperature neck isolators, HART field communicators, and shielded cabling.

R&D and Customization

At **DAVISOL**, we engineer tailored solutions for complex industrial challenges. The DVS-TS380 serves as a highly adaptable platform ready to be customized by our elite R&D task force.

We engineer Pt1000 sensors for low-power networks, bespoke fittings for legacy retrofits, and protective PTFE probe coatings for aggressive media. Partner directly with our R&D division for rapid prototyping and rigorous environmental testing.

DAVISOL — Engineering that delivers.