



DAVISOL DVS-WG320 Compact Field Wireless Gateway

Engineered for mission-critical industrial environments, the DAVISOL DVS-WG320 bridges field sensors to enterprise networks. Combining local Zigbee aggregation with 5G, 4G, Wi-Fi, and Gigabit Ethernet backhaul, it delivers seamless, cable-free telemetry across hazardous Zone 1 facilities.



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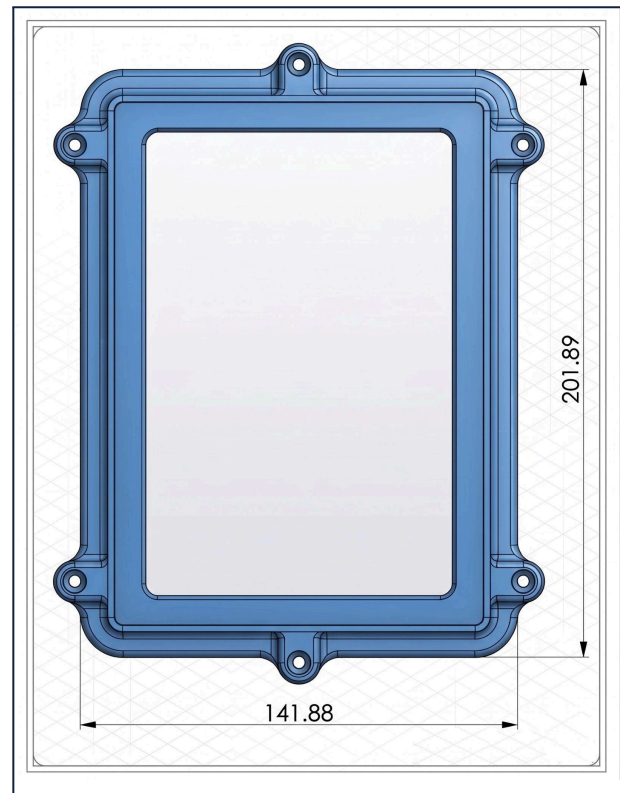


Principle and Characteristics

This compact wireless gateway aggregates data from up to 45 wireless temperature and vibration sensors via Zigbee. Built around a dual-processor edge architecture, it pre-processes diagnostic data and supports 8 GB offline storage to prevent data loss. Encased in an IP67 cast aluminum body with optional flameproof Ex d certification, it features whitelisted sensor security, multi-protocol DCS/PLC integration, and flexible AC/DC/PoE power options.

Some Product Applications

- Refinery pump equipment monitoring
- Factory wireless asset management
- Remote electrical substation diagnostics
- Corrosive environment cable replacement
- Hazardous Zone 1 automation



Technical Specifications

Category	Parameter	Specification
Internal Radio (Zigbee)	Capacity & Topology	Up to 45 Sensors Star Topology IEEE 802.15.4 (2.4 GHz)
	RF Power & Range	16 dBm (max) 300 meters line-of-sight
	Interface	N-type female connector
External Communications	Cellular & Wi-Fi	5G / 4G LTE (33 dBm peak) Wi-Fi 802.11 a/b/g/n/ac (16 dBm peak)
	Ethernet & Protocols	RJ45 Gigabit Ethernet (1000 Mbps, Cat5) PLC & DCS Compatible
Edge & Processing	Architecture & Storage	Dual-processor edge computing 8 GB non-volatile offline storage
	Security & Software	Authorized sensor whitelisting Intelligent diagnostic algorithms
Power / Mechanical / Environment	Power Supply Options	AC 220V (Default) / DC 24V / PoE (Power over Ethernet)
	Operating Temperature	-40°C to 30°C
	Enclosure & Durability	IP67 Cast Aluminum 1-meter concrete drop resistance

Category	Parameter	Specification
	Hazardous Certifications	Zone 1, Group IIC Gas Atmosphere (Ex d IIC T4) CE / EX CE
	Dimensions & Weight	200 mm × 150 mm × 82 mm (Mounting: 201.89 mm × 141.88 mm) 1000 g

A full suite of operational accessories, including ZIGBEE antennas, dual-band fiberglass antennas, 316 stainless steel mounting brackets, and industrial PoE injectors, is available through DAVISOL.

R&D and Customization

At DAVISOL, we understand that standard off-the-shelf networking hardware cannot solve every complex industrial topology. Our dedicated European R&D software and hardware engineering teams stand ready to deliver bespoke configurations of the DVS-WG320 Gateway tailored to your exact enterprise architecture.

From custom firmware modifications and localized hazardous certifications to specialized protocol bridges and custom enclosure adaptations, we adapt our technology to fit your exact operational requirements.

DAVISOL — Engineering that delivers.