

DAVISOL

Engineering that Delivers

Engineering & Instrumentation Solutions

Engineering, instrumentation and lifecycle support for demanding industrial applications.

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DAVISOL

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Engineering & Instrumentation capability, all in one technical partner

DAVISOL combines independent engineering consultancy with specialized industrial instrumentation to help companies solve technical problems from initial assessment through implementation and lifecycle support.

We support industrial and manufacturing clients with project engineering, instrumentation selection, technical compliance, monitoring solutions, R&D and data-driven engineering, while maintaining access to specialist partners where projects require additional disciplines.





1 ASSESS
Understand the asset, application, environment and engineering requirement.

2 ENGINEER
Develop or validate the technical approach.

3 MEASURE
Specify the appropriate instrumentation and sensing technology.

4 CONNECT
Integrate the solution with existing systems.

5 COMMISSION
Validate installation, configuration and measurement performance.

6 SUPPORT
Calibration, maintenance, optimization and future upgrades.

ENGINEERING CAPABILITIES

We help industrial teams solve technical problems, adapt equipment and bring measurement solutions into real applications.

"Engineering that Delivers.

PROJECT & PRODUCT ENGINEERING

From concept through validation and implementation.

- Mechanical engineering
- Product development
- Testing & validation

INDUSTRIAL SYSTEMS & INTEGRATION

Connecting measurement, equipment, and systems.

- Instrumentation architecture
- Data acquisition
- System integration

TECHNICAL COMPLIANCE

Technical support for products, documentation and certification.

- Certification support
- Technical documentation
- Component qualification

DATA & INDUSTRIAL MONITORING

Turning measurements into engineering insight.

- Condition monitoring
- Reliability analysis
- Custom analytics

Process & Hazardous Pressure

Measure what matters, even when the process doesn't forgive mistakes.

Pressure instrumentation built for industrial realities. We cover everything from general machinery to high-accuracy, sanitary, and hazardous environments.

GENERAL INDUSTRIAL → PROCESS → HIGH ACCURACY → SANITARY → HAZARDOUS

Pressure Measurement

Industrial

Machinery
Hydraulics
Compressors

Process

Flow/ Steam
Chemical
Utilities

Specialized

High Accuracy
Sanitary
Hazardous

Pressure Measurement: Four platforms, built around the application.

From heavy-duty machinery and hazardous areas to precision differential measurement and hygienic processes, **DAVISOL** provides pressure platforms configured around your operating environment.



DVS-PR710 Ex

ApEx Pressure Transmitter

Hazardous Area - Rugged pressure measurement for hazardous and severe industrial environments.

HAZARDOUS SERVICE
Ex-rated configurations

PRESSURE RANGE
0.1–60 MPa

ACCURACY
±0.5% FS typical

RUGGEDNESS
25 g vibration

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Oil & gas · Chemical processing · Refineries · Mining · Turbine & hydraulic systems



DVS-PR950 DP

ProPrecision Differential Transmitter

High-accuracy differential pressure measurement for critical flow, level and process applications.

BASE ACCURACY
±0.05% FS

STABILITY
±0.1% / 3 years

COMMUNICATION
HART

OVERPRESSURE
Up to 25 MPa

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Flow measurement · Steam drum level · Distillation · Tank level · Process reactors



DVS-PR310

VersaLine Industrial Pressure Sensor

Compact, rugged pressure measurement for machinery, hydraulics and industrial systems.

PRESSURE RANGE
0.1–60 MPa

ACCURACY
±0.5% FS typical

OUTPUTS
4–20 mA / 0–5 V / 1–5 V

PROTECTION
Up to IP68

Download Sheet

Hydraulics · Pneumatics · Compressors · Pumping stations · Industrial machinery



DVS-PR540 San

CleanLine Sanitary Pressure Sensor

Flush-diaphragm pressure measurement for hygienic food, beverage and pharmaceutical processes.

WETTED DESIGN
316L flush diaphragm

CLEANING
CIP / SIP compatible

CONNECTIONS
Tri-Clamp options

PRESSURE RANGE
0.1–60 MPa

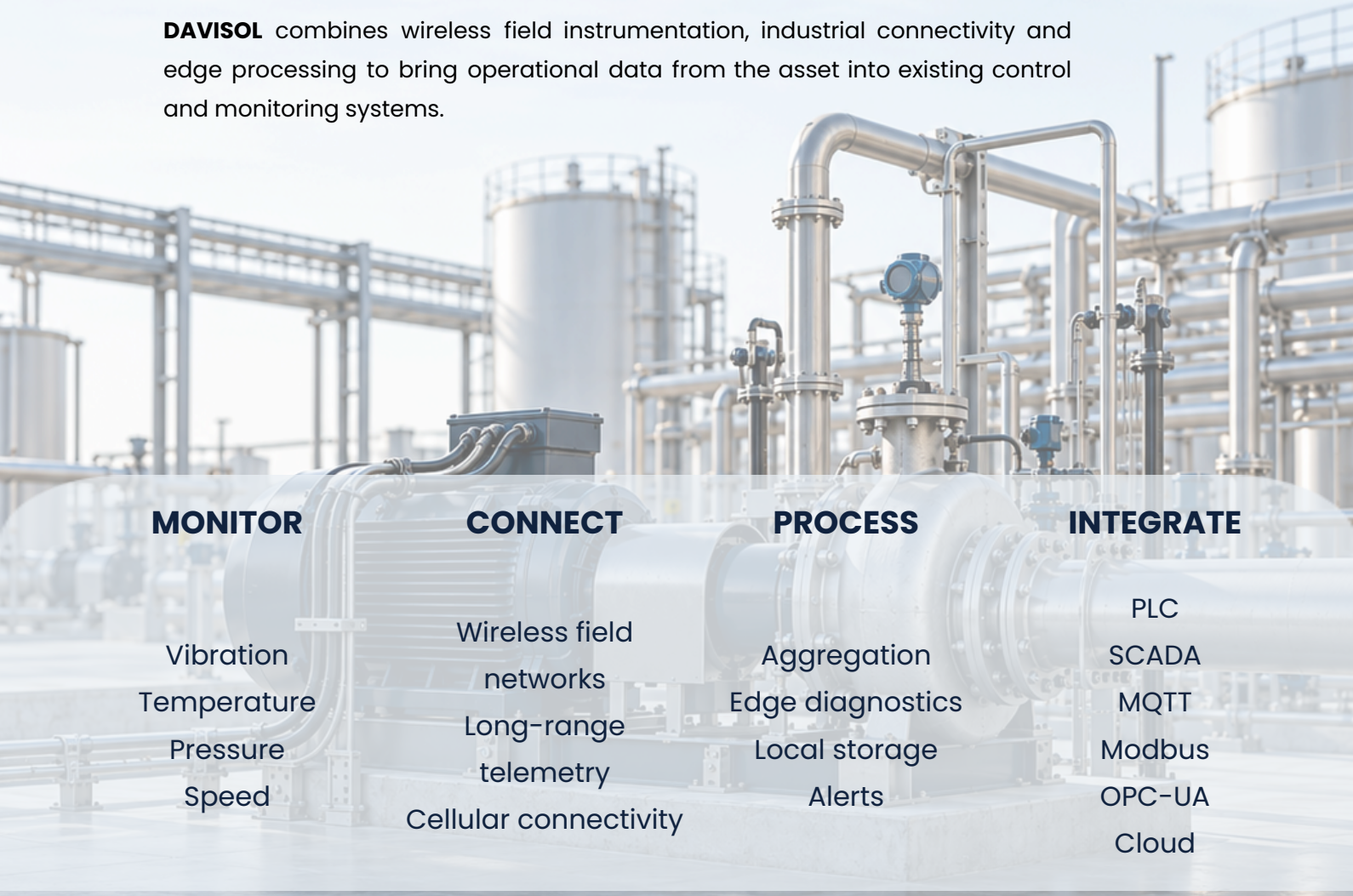
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Pharmaceutical · Bioreactors · Dairy · Brewing · High-purity water

Connect the assets that matter

Bring measurement to equipment, processes and remote infrastructure where traditional cabling is costly, impractical or unnecessary.

DAVISOL combines wireless field instrumentation, industrial connectivity and edge processing to bring operational data from the asset into existing control and monitoring systems.



MONITOR	CONNECT	PROCESS	INTEGRATE
Vibration	Wireless field networks	Aggregation	PLC
Temperature	Long-range telemetry	Edge diagnostics	SCADA
Pressure	Cellular connectivity	Local storage	MQTT
Speed		Alerts	Modbus
			OPC-UA
			Cloud



ASSET HEALTH

Condition monitoring for rotating equipment

Pumps · Motors · Compressors · Gearboxes · Turbines

PROCESS VISIBILITY

Wireless process measurement

Pipelines · Vessels · Utilities · Process equipment

REMOTE INFRASTRUCTURE

Autonomous long-range monitoring

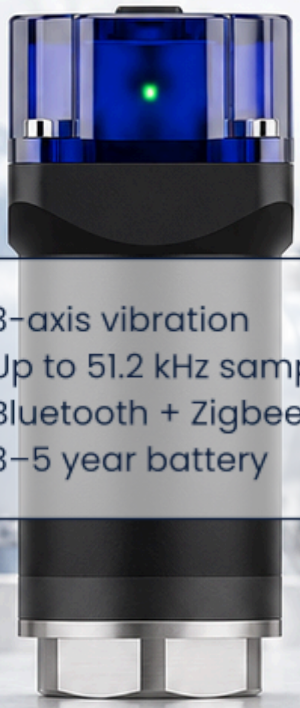
Water networks · Pipelines · Energy · Environmental assets

Measurement at the asset

Four platforms for condition monitoring, process measurement and autonomous remote sensing.

DVS-WT790 Ex

Smart Wireless Temperature & Vibration Monitor



- 3-axis vibration
- Up to 51.2 kHz sampling
- Bluetooth + Zigbee
- 3–5 year battery

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Pumps · Motors · Compressors · Turbines · Gearboxes

DVS-WT780 Ex

Smart Wireless Temperature & Vibration Monitor



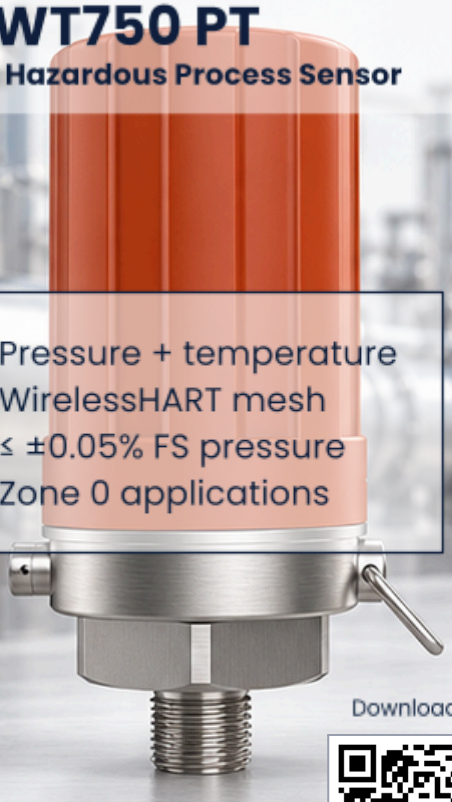
- 3-axis vibration
- Up to 50 kHz sampling
- IP68
- Up to 3 years battery

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Pumps · Compressors · Blowers · Generators · Process machinery

DVS-WT750 PT

FieldMesh Hazardous Process Sensor



- Pressure + temperature
- WirelessHART mesh
- ≤ ±0.05% FS pressure
- Zone 0 applications

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Pipelines · Vessels · Pumping stations · Gas networks · Utilities

DVS-WT510 Solar

EcoSense Solar LoRaWAN Node



- LoRaWAN / NB-IoT
- Up to 2.5 km LOS
- Solar + 19,000 mAh battery
- IP68 options

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Water networks · Pipelines · Hydrology · Remote energy infrastructure

Gateways & Edge Connectivity

From field aggregation to edge intelligence



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DVS-WG320

DVS-WG790

DVS-WG320	DVS-WG790
Field Sensor Aggregation	Edge Processing & Integration
Zigbee/ IEEE/ 802.15.4 Can't find what you need?	Zigbee/ LoRa/ LTE/ Wi-Fi
Up to 45 Sensors	Up to 200 Sensors
Ethernet · 4G/5G · Wi-Fi · PLC/DCS	MQTT · Modbus · OPC-UA · Ethernet · LTE · Wi-Fi

Industrial Temperature & Level Sensing

Reliable measurement across machinery, processes, utilities and infrastructure.



MACHINERY

Temperature where equipment performance depends on it.

Pumps · Motors · Compressors · Bearings

PROCESS

Measurement for controlled and demanding process conditions.

Piping · Vessels · Reactors · Production systems

UTILITIES

Temperature visibility across essential plant services.

Heating · Cooling · Water · Energy systems

WATER & INFRASTRUCTURE

Level measurement for distributed and submerged applications.

Tanks · Wells · Reservoirs · Water systems

Temperature & Level Platforms

Four measurement platforms for machinery, process, hazardous areas and water infrastructure.



DVS-TS320

ThermPoint Compact Temperature Transducer

Compact temperature measurement for machinery and industrial equipment.

-50 to +300°C ±0.5% FS 4–20 mA / voltage

Pumps · Compressors · Hydraulics · Heating



DVS-TS380

ThermFlex Universal Temperature Transmitter

Flexible RTD and thermocouple measurement for process and utility applications.

Pt100 / TC | 4–20 mA | Optional HART

Process · Boilers · Machinery · Plant utilities



DVS-TS730 Ex

ThermEx Hazardous Digital Temp Sensor

Digital temperature measurement for hazardous and demanding process environments.

Ex d / Ex ia | -50 to 1600°C | 4–20 mA + HART

Refining · Reactors · Storage tanks · Power



DVS-LT310/410/510

HydroDepth Submersible Level Sensor

Hydrostatic level measurement for submerged and remote liquid applications.

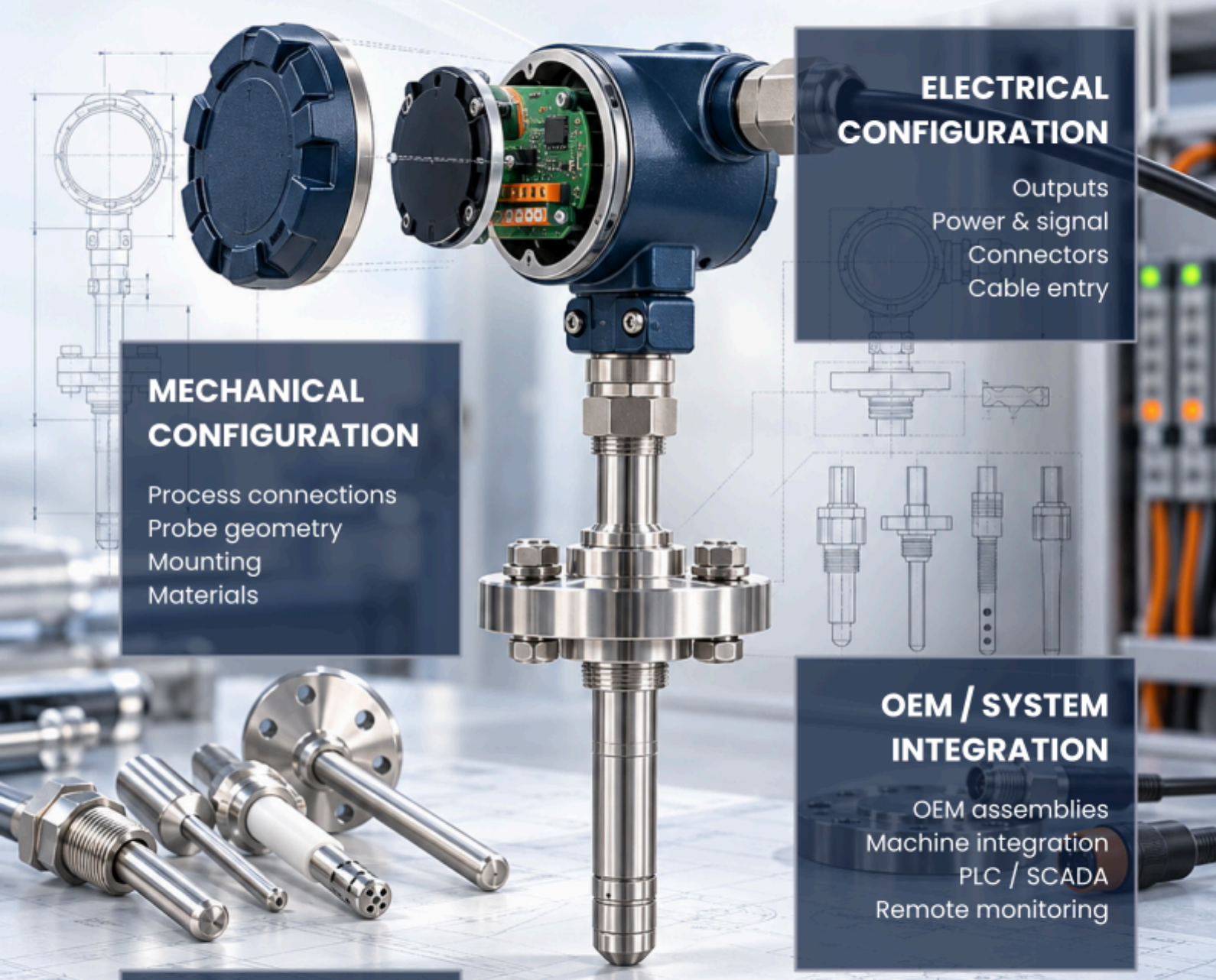
Up to 200 mH_2O | IP68 | 316L diaphragm

Wells · Basins · Tank farms · Flood control

Find Sheets Here >

From proven platform to application-specific solution

We can adapt any proven sensing technologies when mechanical, electrical or integration requirements fall outside the standard configuration.



ELECTRICAL CONFIGURATION

Outputs
Power & signal
Connectors
Cable entry

MECHANICAL CONFIGURATION

Process connections
Probe geometry
Mounting
Materials

OEM / SYSTEM INTEGRATION

OEM assemblies
Machine integration
PLC / SCADA
Remote monitoring

APPLICATION ADAPTATION

Range
Media
Environment
Hazardous duty

Start with proven technology, change only what **your application requires**.

Need something different?

Specialized Sensing & OEM Components

Additional technologies for OEM integration, automation and application-specific engineering.

SPECIALIZED LEVEL SENSING

DVS-LS310
Hermetic Magnetic Float Level Switch



Point-level control for tanks, sumps and utility systems.

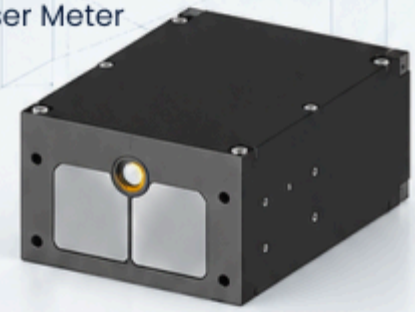
DVS-LS110
Solid-State Capacitive Point Switch



Compact level detection for OEM and liquid-handling systems.

OPTICAL & AUTOMATION SENSING

DVS-DS920
OptiRange Extended Optical Laser Meter



Long-range distance measurement · up to **200 m**

High-speed positioning **1–20 kHz**



DVS-DS550
OptiSpeed High-Frequency Laser Sensor

DVS-DS310
OptiSense Compact BGS Sensor



Background-suppression object detection

OEM SENSING COMPONENTS



DVS-EM910
OEM DP Core Module

Pre-calibrated DP core · HART

DVS-EM900
High-Stability Silicon Pressure Sensor



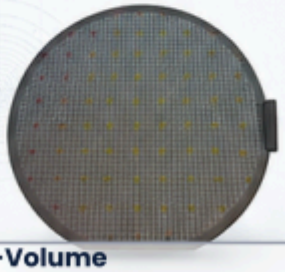
Long-term stability for precision OEM instrumentation

DVS-EM120
Isolated Piezoresistive OEM Element

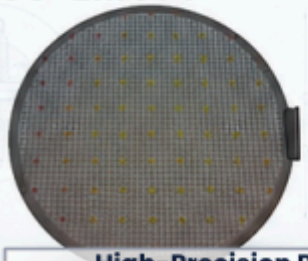


316L isolated sensing for demanding media

DVS-EM100 & DVS-EM600



High-Volume Micro-Silicon OEM Die
Uncompensated die for high-volume integration



High-Precision Pressure Sensor Die
High-temperature sensing for demanding OEM designs

NEED SOMETHING SPECIFIC?
Explore our wider sensing range or talk to us about your application.

EXPLORE THE RANGE

Beyond the Installation

Measurement performance does not stop at commissioning.

DAVISOL supports the continued accuracy, reliability and usefulness of instrumentation throughout its operating life.



CALIBRATION & VERIFICATION

Keep Measurements Trustworthy

Calibration
Validation
Documentation

MAINTENANCE & TROUBLESHOOTING

Keep Instrumentation Available

Inspection
Diagnostics
Replacement

OPTIMIZATION & UPGRADES

Keep Systems Relevant

Monitoring
Retrofit
Modernization

TECHNICAL SUPPORT

Keep Engineering Available

Application Support
Documentation
Technical assistance

Support is tailored to the instrumentation, project scope and operational requirements.

Have an engineering or instrumentation requirement?

Tell us what you are trying to measure, monitor, improve or integrate.



CONNECT WITH US

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Tell us about your application