

SENSORS-

MEASURING WHAT REALLY MATTERS

VELOMAT

MESSELEKTRONIK GmbH

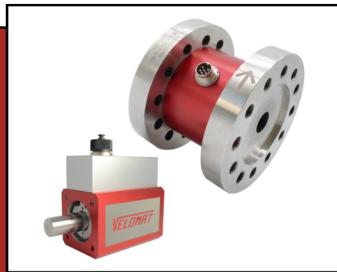
Customised sensor technology for precise measurement tasks

Development & production of sensors – customised, robust and tailored to specific applications



Force sensors

- Measurement of tensile and compressive forces in test benches, machinery and industrial processes
- Versatile, from standard applications to complex custom solutions
- Development of customised force transducers with a focus on integration and measurement accuracy



Torque sensors

- Measurement of torque in static and rotating applications for power and load analysis
- Used in drive technology, test bench systems and machine development
- Custom-designed sensor solutions for complex mechanical integrations



Vibration sensors

- Condition monitoring of machinery through the analysis of vibration behaviour
- Early detection of imbalances, wear and critical operating conditions
- Contributing to increased plant availability and process reliability



Compressive force transducer

- Measurement of compressive and normal forces in test benches, machinery and industrial applications
- Use in safety-critical measurement and monitoring tasks with high accuracy requirements
- Customised design for challenging installation scenarios and specific measurement tasks



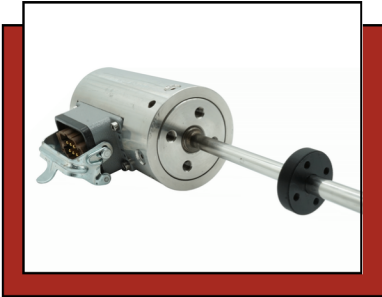
Flow sensors

- Measurement of fluid and media flows in industrial supply and process systems
- Use in complex plants for the continuous monitoring of operating parameters
- Customisable sensor technology for plant availability and process reliability

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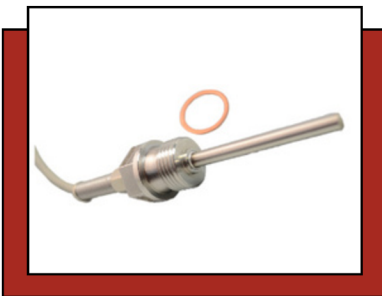
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Displacement sensors

- Precise measurement of position, displacement and motion in automated systems
- Used in mechanical engineering, testing technology and industrial process control
- Flexible designs to meet a range of mechanical and structural requirements



Temperature sensors

- Temperature measurement in machinery, plant and process-related applications
- Used to monitor thermal processes and safeguard critical operating conditions
- Customised solutions for a variety of environments and media



Optical liquid detector

- Optical level detection for liquids in potentially explosive atmospheres
- Reliable and interference-free signal transmission thanks to integrated infrared technology
- Robust stainless steel construction with IP67 protection rating for demanding operating conditions



Level sensor

- Capacitive level measurement for liquids and bulk materials in demanding applications
- Ideal for tankers, test bench technology, and both mobile and stationary tanks
- Robust design with high resistance to vibration, moisture and mechanical stress



Calibration service

- Factory calibrations for load cells and measurement systems – at the VELOMAT calibration laboratory or directly on site at the customer's premises
- Calibration range for tensile and compressive forces from 1 to 500 kN; other ranges available on request
- Visual inspection, pre-calibration testing, calibration and optional adjustment, all from a single source, to ensure the highest measurement quality