SENSORS –
MEASURING WHAT REALLY MATTERS

VELOMAT
MESSELEKTRONIK GmbH

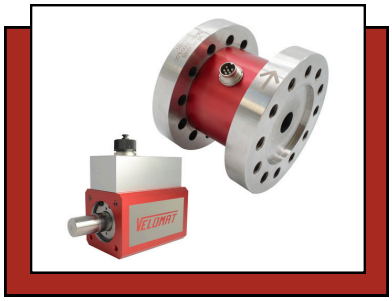
Customised sensor technology for precise measurement tasks

Development and 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 applications, ranging from standard applications to complex bespoke solutions
- Development of customised force transducers with a focus on integration and measurement accuracy



Torque sensors

- Torque measurement 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



Force transducer

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



Flow sensors

- Measurement of liquid and media flows in industrial supply and process systems
- Used in complex plants for the continuous monitoring of operating parameters
- Customised designs to suit the specific medium, flow range and installation conditions

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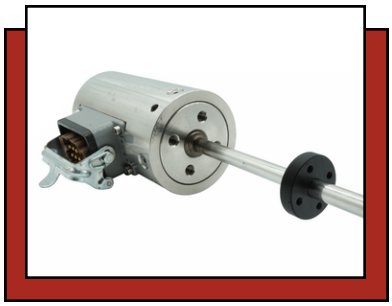
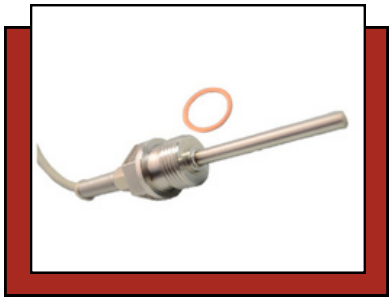


Displacement sensors

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



Temperature sensors

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



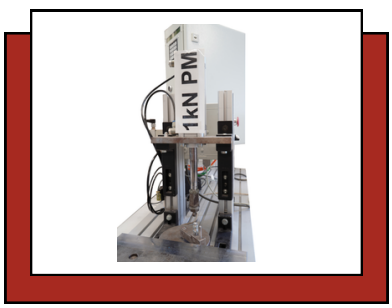
Optical liquid detector

- Optical level measurement 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 solids in demanding applications
- Ideal for tankers, test bench technology, and mobile and stationary tanks
- Robust design with high resistance to vibrations, moisture and mechanical stress



Calibration service

- Factory calibrations for load cells and measurement systems – either 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; further ranges available on request
- Visual inspection, pre-calibration tests, calibration and optional adjustment – all from a single source to ensure the highest measurement quality

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