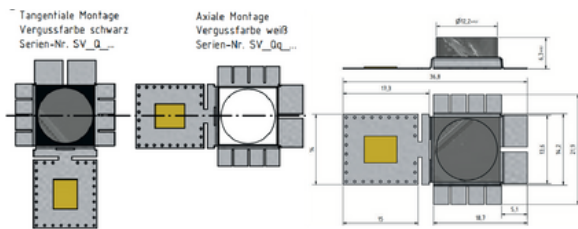


Shaft TelMA Torque element

- Depending on customer requirements, one or two elements can be used for automatic (bending moment compensation)
- Flexible carrier with integrated sensor element and integrated interface



Stator antennas:

- Flexible realization - no adjustment necessary:
- Simple support for a copper loop
- 3D printing for diameter flexibility or a circuit board

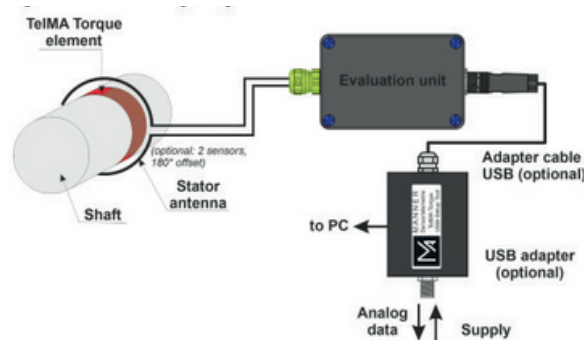


OEM Version Ip40
Dimensions:
60 mm x 51 mm x 15,5 mm



Industrial Version Ip67
Dimensions:
131,8 mm x 64 mm x 34 mm

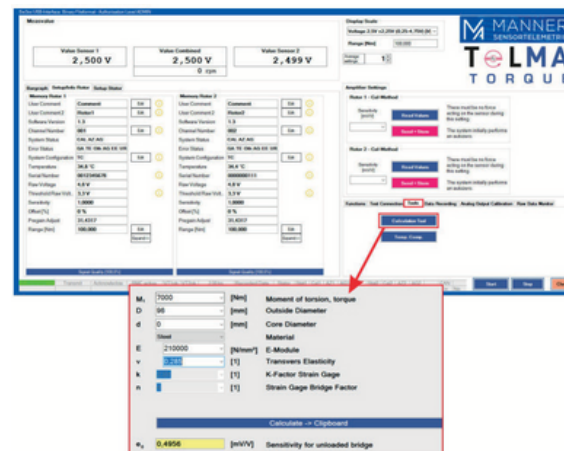
General measurement configurations



Final configuration step after installation – Setting the measurement range via software with an integrated calculation tool

Stator units:

- Supply voltage 9-30 V for flexible applications, e.g., in vehicle operation
- Voltage output 2.5 ± 2.25 V and current output 4...20 mA available
- CAN interface for direct signal transmission

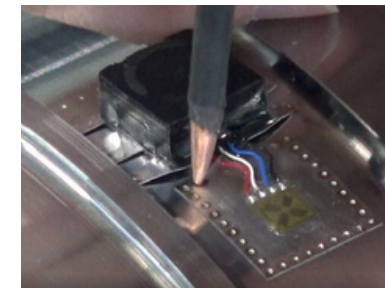
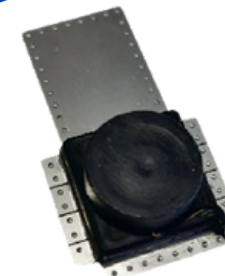


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TOLMA
TORQUE

TelMA Torque - the revolutionary torque acquisition for Industry 4.0 and machine monitoring („patented“) in a stamp format

System for the inductive & maintenance free measurement of:



Torque

Speed

Temperature



New possibilities for

- M Machine monitoring/early diagnosis/predictive maintenance
- M Process optimization for control loop integration
- M Recording of dynamics and torsional vibrations for Detection of the cause of force/vibration breaks
- M Performance and efficiency analyses „Safe“ and reliable machine operation

TelMA Torque offers a revolutionary and cost-effective solution for torque measurement in serial gearboxes or drive trains as enabler for Industry 4.0!

„...As long as real machines and plants produce real products, it will always be a question of executing movements precisely and quickly with the necessary force.“ Dr. Steffen Haack, Vorstandsmitglied Indust. Applic und Rexroth AG

Advantages at a glance

- M Miniaturized dynamic torque measurement using strain gauge technology on a rotating shaft in stamp format
- M Compact TelMA Torque element with integrated sensor and telemetry interface
- M No soldering gun or gluing process
- M Simple assembly in series by means of microwelding technology without affecting the shaft strength
- M Integrated rotation speed measurement
- M Possible compensation of the bending moment influence by mounting 2 sensor elements
- M Analogue or digital signal output
- M Digital and contactless signal transmission
- M Completely maintenance-free operation
- M Diameter according to customer requirements 30 mm - 400 mm

Easy mounting of the TelMA Torque Element:

- M Mounting by means of micro welding, without damaging the shaft properties - mounting time: approx. 2.5 minutes
- M [Link to the video on YouTube](#)

