

Allrounder of the Next Generation

Precision Torque Sensor 8661

with USB interface and dual range



NEW

Measuring ranges
from 0.02 Nm

- Measuring ranges 0.02 ... 1000 Nm
- Dual range option from 0.2 Nm
- Rapid availability
- Sampling rate up to 1000 Hz



Standard

- Measuring range 0 ... ± 0.02 Nm to 0 ... ± 1000 Nm
- Linearity deviation $\leq \pm 0.05$ % F.S.
- Operating state indicator
- Sampling rate up to 1000 Hz
- Analog output ± 10 VDC

Options

- Measurement of angle 0.088° and speed
- Dual range sensor with spreading 1:10, 1:5, 1:4
- USB interface
- Shaft ends with keyway
- Analog output ± 5 VDC

Software

- Configuration and evaluation software for up to 32 channels
- Clear measurement display Live or after the measurement
- Intuitive user interface
- Mathematical functions incl. formula editor
- Calculation of mechanical power, efficiency, performance factor etc.
- Configuration of virtual channels

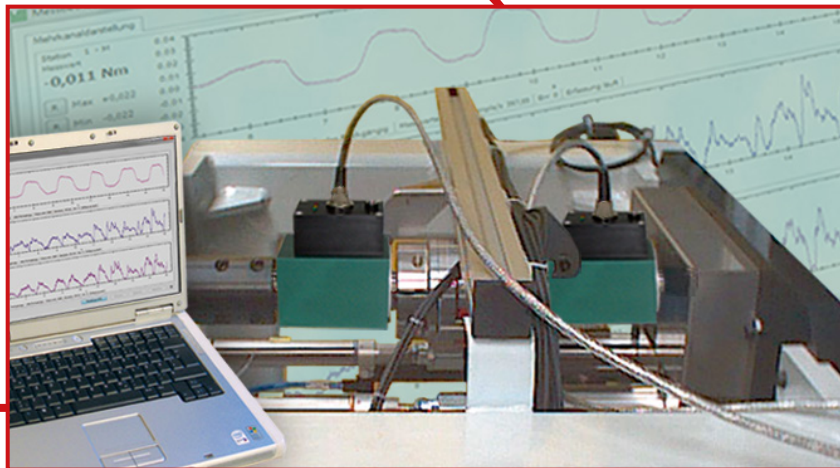
Configuration and evaluation software DigiVision for up to 32 channels

Powerful configuration and evaluation software suitable for easy PC-based analysis and reporting in mobile and stationary applications field such as lab, R & D and industrial environment.

Application example

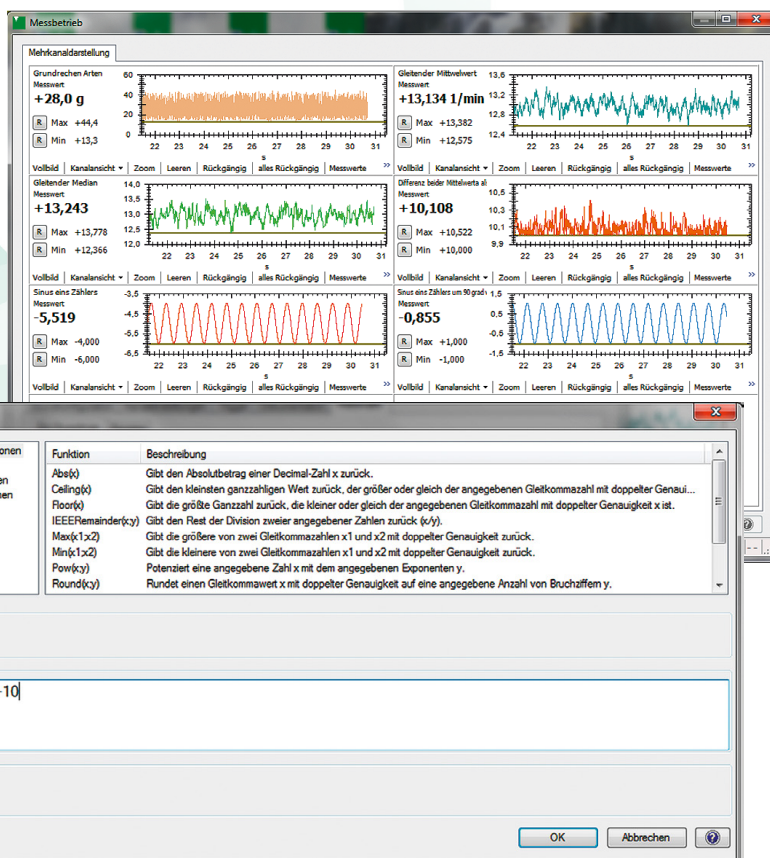
Determination of mechanical efficiency of DC motors

- The torque at the driving and output end is recorded by the software DigiVision.
- The efficiency factor is generated and evaluated via the virtual measuring channel. The MIN/MAX values are stored.
- The vibration-proof design enables a speed range up to 25000 min⁻¹



Mathematical calculation through virtual channels

- All scientific functions are presentable
- Storage function of measuring log
- Easy-Click. Quickly click your own formulas together by using the formula editor.
- Several trigger features
- DLL and LabView drivers for free
- Automatic sensor recognition



Typical Applications

- Efficiency measurement of motors
- Averaging of measurement results
- Redundancy measurements
- Determination of friction value