

World Class Calibration



Calibration Ensures Consistent Quality of Measurement Results

Almost every company is certified according to the relevant quality standards (probably the most well-known is **EN ISO 9001**) – a prerequisite that must be fulfilled to be eligible as a supplier to a wide range of sectors in **production and service**. The standard also stipulates that **measuring equipment must be traceable**.

What is Traceability ?

Traceability means that a **continuous chain of calibrations** capable of **being traced to the national standard** must be proven and the measurement uncertainty of each calibration is known and documented.

Reference Transducers for On-site Calibrations

For measuring equipment that cannot be dismantled and shipped due to the installation situation or the **cost and time** it would entail, we offer precise and reference force and torque transducers for **calibration task** that **meets the quality standards required for audits**. Our **reference transducers** not only offer extremely small measurement uncertainty but are also robust and can be combined with **amplifier modules** specially designed for this purpose to form **economical reference measuring chains**. Our solution helps in **minimizing production disruption/downtime** without compromising calibration quality.

Examples of Calibration Service Demand in Different Applications

Force Applications



Civil Engineering
Safety of Buildings



Railroad / Aerospace
Safety of Infrastructures



Testing Machine / Machinery
Standard Assurance

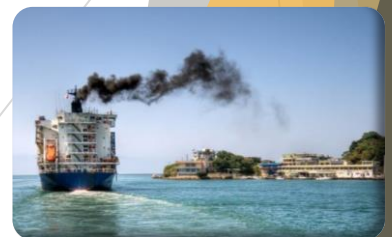
Torque Applications



Automotive
Motor Efficiency



Wind Power
Drive Trains & Generators



Ship Building
Reduction of Emissions

Precision Measurement Chain – Reference Sensor

Force Sensor



- Measuring range: from 50 N ... 15 MN
- Accuracy class up to **Class 00** per **DAKKS/ISO376**
- Tension & compression applications
- TEDS** is available
- Accessories** with **ISO376** compliance

Torque Sensor



- Measuring range: from 100 Nm ... 20 kNm
- Accuracy class up to **Class 0.05** per **DAKKS/DIN 51309**

Precision Measurement Chain – Reference Measuring Instrument



The World Most Accurate & Precise Measurement Amplifier - **DMP41**

- Initial accuracy 5ppm (**0.0005%**)
- 225Hz carrier frequency
- Powerful digital filters
- Patented automatic background calibration



High Precision & Accuracy Amplifier Module – **ML38B**

- Initial accuracy 25ppm (**0.0025%**)
- 225Hz carrier frequency
- Automated calibration & adjustment routines



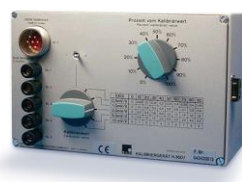
Precise, Accurate & Compact Module – **MX238B**

- Initial accuracy 25ppm (**0.0025%**)
- Patented background calibration
- Lab / portable use

Calibration Unit for Strain Gauge based Measuring Amplifier



- Full bridge calibrator
- Accuracy class 0.0005



- Full bridge calibrator
- Accuracy class 0.025



- 8-channels full bridge calibrator
- Accuracy class 0.0025



- 8-channels quarter bridge calibrator
- Accuracy class 0.03

CONTACT US

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