Precise Torque Monitoring with DIGIFORCE® 9307 and Torque Sensor 8661





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PRECISION TORQUE MONITORING

Product highlights torque sensor 8661

- Measurement uncertainty ≤ 0.05 of full scale
- High-resolution angle measurements
- Intelligent operating state indicator
- Dual-range sensor

The perfect bundle for your process monitoring task

Product highlights DIGIFORCE® 9307

- Measurement uncertainty ≤ 0.05 of full scale
- Versatile and comprehensive curve analysis
- Process integration thanks to a range of Fieldbus interfaces
- Measurement-data logging using DigiControl software

8661 Dual-range torque sensor

- Precision in two separately calibrated measurement ranges
- 5-times overload protection in the low measurement range
- Measurement ranges can be switched via DIGIFORCE[®] 9307
- No time wasted on changing sensors and only one pair of couplings required

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DIGIFORCE® curve analysis using X/Y graph

The **DIGIFORCE® 9307** can record a torque/angle characteristic as a forward and return measurement curve - the figure shows a typical curve during opening and closing of a hinge with catch positions. The X/Y graph can be customized to monitor compliance with quality features. Evaluation

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tools provided for this purpose include not only classic window techniques but also thresholds, trapeziums, envelopes and mathematical operators. A global good/bad result is available as soon as the test is finished. The DIGIFORCE[®] control unit can be connected both to a machine controller (I/Os or Fieldbus) and to a host PC for logging measurement data. This setup enables synchronous management of full process-data acquisition, including the entire torque/angle curve, even using more than one controller.



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