

Force Gauge PCE-DFG N 100TW-ICA incl. ISO Calibration Certificate



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Force Gauge up to 100 Nm / External torque transducer 1/2" internal square / Graphic display / PEAK function / Sampling rate max. 1600 Hz / Incl. Software

The force gauge consists of a handheld measuring device and an external torque transducer. The torsion transducer is connected to the handheld device via a 1.5 m / 4.9 ft long cable and thus enables installation in a test stand or direct assembly on a test bench.

The force gauge is delivered adjusted so that the control measurements can be started immediately. A calibration certificate is optionally available for the force gauge. This certificate is a target / actual comparison on a traceable reference standard and thus serves as proof of the measurement accuracy. The measurement uncertainty of the torque measuring device is only 0.5% of the measuring range. The force gauge is therefore used as a reference device for testing and adjusting static torque tools. A screw latch is essential for dynamic torques.

The force gauge has a 1/2" square socket and can perform the torsion measurements in both directions of rotation. With a sampling rate of 1600 Hz, the force gauge reliably detects the first and the maximum torsional moment peak (PEAK). The release moment ("click") is shown separately in the display and can be deleted either manually or automatically after a set time has elapsed. Thanks to freely adjustable alarm values, the torque force gauge can warn the tester of overload of the torque tool if it does not trigger itself. For a more detailed analysis of the torsional forces, the PC software included in the scope of delivery can be used.

- ▶ Left / right torsion measurement
- ▶ 1600 Hz sampling rate
- ▶ Error limit 0.5% of the measuring range
- ▶ PEAK / Hold function
- ▶ Graphic display
- ▶ PC software
- ▶ Power adapter and battery operation possible
- ▶ **incl. ISO Calibration Certificate**
- ▶ **the direction of rotation must be selected!**

Specifications

Measuring range	0 ... 100 Nm
Resolution	0.1 Nm
Accuracy	± 0.5% of the measuring range
Units of measurement	Nm, lbfft, kgfm
Torque sensor mount	1/2" (12.5 x 12.5 mm) internal square
Torsion measurement	Left / Right
Display	2.8" TFT graphic display
Alarm modes	Inside Outside
Sampling rate	6 ... 1600 Hz
Storage	For 100 measurement series with 8,000 measurement points each
Power supply	NiMh battery, 6V / 1600-mAh
Battery life	About 10 hours
Power supply / charging adapter	12V / 1 A
Outputs	Interface: USB Switching output: 12V / 50-mA
Protection class	IP 54
Operating and storage conditions	-10 ... 50°C / 14 ... 122°F 5 ... 95% RH non-condensing
Torque transducer dimensions	H 85 mm / Ø 72 mm / Ø 104 mm (H 3.3 in / Ø 2.8 in / Ø 4.1 in) (see technical drawing)
Sensor cable length / td>	Approx. 1.5 m / 4.9 ft
Dimensions handset	200 x 97 x 42 mm / 7.9 x 3.8 x 1.7 in
Weight handset	540 g / 1.2 lbs
Weight of the torsion transducer	985 g / 2.2 lbs

More information

Manual



Diagram



More product info



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