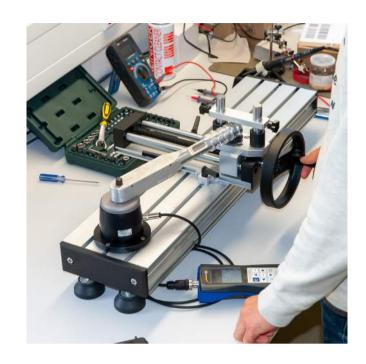


Force Gauge PCE-DFG N 10TW







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Force Gauge up to 10 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 force gauge is connected to the hand-held 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 torque transducer 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 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

Subject to change

Specifications

Measuring range 0 ... 10 Nm
Resolution 0.005 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 $200 \times 97 \times 42 \text{ mm} / 7.9 \times 3.8 \times 1.7 \text{ in}$

Weight handset 540 g / 1.2 lbs Weight of the torsion transducer 985 g / 2.2 lbs

More information



Diagram

More product info



Similar products

