

TORQUE METER

PCE-DFG N TW SERIES



- » 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

The torque wrench tester consists of a handheld measuring device and an external torque transducer. The torsion transducer 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 torque measuring device is delivered adjusted so that the control measurements can be started immediately. A calibration certificate is optionally available for the torque measuring device. 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 torque measuring device 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 torque meter 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 measuring device 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.

General features and specifications PCE-DFG N TW Series

Accuracy	± 0.5% of the measuring range
Units of measurement	Nm, lbfft, kgfm
Display	2.8" TFT graphic display
Alarm modes	within, beyond
Sampling rate	6 ... 1600 Hz device 6...800 Hz software
Memory	For 100 measurement series with 8,000 measurement points each
Language	German/English
Battery	Ni-Hi rechargeable battery 6 V, 1600 mAh Battery life 10 hours
Mains adaptor	12 VDC 1 A
Outputs	Communication via USB Output port 12 V, 50 mA
Protection class	IP 54

Torque meter with external torque transducer

	PCE-DFG N 5TW	PCE-DFG N 10TW	PCE-DFG N 50TW	PCE-DFG N 100TW
Measurement range	0 ... 5 Nm	0 ... 10 Nm	0 ... 50 Nm	0...100 Nm
Resolution	0.001 Nm	0.005 Nm	0.01 Nm	0.1 Nm
Dimensions	200 x 97 x 42 mm	200 x 97 x 42 mm	200 x 97 x 42 mm	200 x 97 x 42 mm
Weight	Handheld unit approx. 540 g / torque sensor approx. 540g	Handheld unit approx. 540 g / torque sensor approx. 540g	Handheld unit approx. 540 g / torque sensor approx. 540g	Handheld unit approx. 540 g / torque sensor approx. 540g