

TORQUE MEASUREMENT

TORQUE METER PCE-DFG N 100TW

Torque meter up to 100 Nm / external torque transducer 1/2 " internal square

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.

ISO cal option

- ▶ left / right torsion measurement
- ▶ error limit 0.5 % of the measuring range
- ▶ graphic display
- ▶ PC software
- ▶ PEAK / Hold function
- ▶ 1600 Hz sampling rate
- ▶ power adapter and battery operation possible
- ▶ the direction of rotation must be selected



APPLICATION



TECHNICAL 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, 6 V / 1600-mAh
Battery life	About 10 hours
Power supply / charging adapter	12 V / 1 A
Outputs	Interface: USB Switching output: 12 V / 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

Further models of the PCE-DFG N TW series:

PCE-DFG N 50TW	Measuring range	0 ... 50 Nm
PCE-DFG N 10TW	Measuring range	0 ... 10 Nm
PCE-DFG N 5TW	Measuring range	0 ... 5 Nm



Subject to change without notice