



Torque Meter PCE-FB 500TW



Torque WrenchTester PCE-FB TW Series

Torque Wrench Tester up to 500 Nm / external torque transducer 1/4' female square / graphical display / PEAK function / max. 1000 Hz / USBinterface / incl. downloadable software

The torque wrenchtester of the PCE-TWM series can test torque wrenches up to 500 Nm, depending on the sensor. Due to the precise evaluation electronics, the torque wrenchtester has a measurement accuracy of 0.5 % of the measurement range. The torque wrench is fixed by means of a 1/4' female square. The torque wrench tester consists of an evaluation unit and an external torque transducer with a cable which makes the measurement setup convenient. Torque wrenches can be tested in both directions. The limit value function of the torque wrench tester makes it possible to set an acoustic alarm which is triggered when a pre-set torque is reached. The torque wrench tester indicates the PEAK value (maximum value display) as well as the force path and also offers the possibility of a statistical evaluation of the measurement process. The measurement results can be saved to an internal SD card and can be read out on the device or a PC. The PC software for the torque wrench tester is available for download from the PCE website.

- ▶ mobile torque wrench tester
- ▶ measurement range up to 500 Nm
- ▶ max. **0.5 %** of measurement range error tolerance
- ▶ sampling rate of up to 1000 Hz selectable
- ▶ PEAK function (MIN / MAX)
- ▶ limit value function / comparison of measurement values
- ▶ fixation by 1/4' female square
- ▶ statistical graphical evaluation
- ▶ graphical display with automatic alignment
- ▶ menu navigation: German, English, Spanish
- ▶ incl. downloadable PC evaluation software
- ▶ USB and RS-232 interface
- ▶ overload protection max. 50% of measurement range
- ▶ mains adaptor or rechargeable batteries possible

Subject to change

Specifications

Technical specifications

Model	Measurement range / resolution
PCE-FB 500TW	500 Nm (50 kgfm / 1 Nm)
Accuracy	±0.5 % of measurement range
Units of measurement	Nm, Ncm, kgfm, lbf·in, gfm
Calibration	possible with external F2 weights
Max. Overload	50 % of measurement range
Sampling rate	freely adjustable up to 1,000 values / s
Functions	PEAK function (MIN - MAX Hold) / limit value measurement / real-time measurement with software
Display	graphical LC display 61 x 34 mm / automatic display alignment / backlight
Menu	multilingual: German / English/ Spanish
Memory	internal memory and mini SD card memory . (internal memory is limited to a series of measurement of up to 6,400 measurements)
Storage	manual - by keystroke automatic - (adjustable)
Interface	serial RS-232, 9-pole and USB OPTIONAL: switch contact output MIN / MAX / OK (see below) + 1 input
Software	incl. downloadable PC software for evaluation and control
Operating conditions	- 10 ... +40 °C
Power supply	4 x Ni-MH 2700 mAh AA rechargeable batteries (exchangeable) or mains adaptor ~230 V/12 V; 1.2 A incl. Auto Power Off function adjustable
Battery life	approx. 20 hours (without backlight approx. 45 h)
Dimensions evaluation unit	210 x 110 x 40 mm / 600 g
Dimensions torque transducer	up to 10 Nm Ø 90 (Ø 40) / 80 mm / 700 g above 10 Nm 1500 g Ø 75 / 90 mm / 1500 g
Cable length of external torque measuring cell	approx. 2 m

More information

Manual



More product info



Similar products



Subject to change