

TORQUE METER

PCE-TWT 550NM



- » **External sensor with 3/4-inch mounting**
- » **Operating modes: Peak, Max, Real-time**
- » **Units: N·m, kgf·cm, lbf·in**
- » **Memory for 2000 readings**
- » **Includes software for data export**
- » **Memory: 2000 groups of readings**
- » **Data transfer: USB interface**
- » **Power supply: 7.2V NiMH rechargeable battery**

The torque meter is a high-quality measuring instrument designed for calibrating torque sensors and for the precise measurement of the tightening torque of screws and other fasteners. The torque meter offers a high accuracy of $\pm 1\%$ within the range of 10% ... 100% of the scale and can be operated in both clockwise and anti-clockwise directions.

The torque meter supports several operating modes such as Peak Hold, MAX and real-time measurement. In Peak Hold mode, the maximum value is automatically saved, and the measurement data can be transferred via USB to the software, which also enables a pass/fail evaluation. Tolerance ranges can be set directly on the device, allowing values to be checked quickly. An integrated LED traffic light display shows the measured value at a glance.

The choice between the units Newton-meter (N·m), kilogram-force-centimeter (kgf·cm) and pound-force-inch (lbf·in) enables flexible applications across various industries. With a storage capacity of 2,000 measurement groups and the option of data transfer via USB, the measuring instrument is ideal for use in the mechanical engineering industry and in scientific research facilities.

The torque meter operates reliably at ambient temperatures of 5 to 40°C / 41 ... 104°F and is powered by a 7.2V NiMH battery, which is optimized for mobile use.

Specification

Torque

Measurement range with 55 ... 550 Nm

Resolution 0,1 Nm

Accuracy $\pm 1\%$ of Rd

Sensor

Cable length 150 cm

General technical data

Measuring functions peak, Real-time value, MAX

Units Nm, kgfcm, lbf in

Connections 3/4 inch

Display type LCD

Display size 3,3 Inch

Storage medium Internal memory

Storage capacity 2000 Data records

Memory information The measured value is only saved automatically in peak mode

Interface Micro-USB

Alarm Acoustic, optical

Menu language English (GB), English

Protection class (device) IP20

Power supply 12V DC / 0.5 A

(Rechargeable) battery 1 x 7,2 V internal, Nickel-metal hydride battery

Capacity 7800 mAh

Operating conditions 5 ... 40 °C, 90 % RH

Storage conditions -20 ... 70 °C, 90 % RH

Dimensions (L x W x H) 118 x 90 x 103 mm

Weight 397 g