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## Technical Dynamometer PCE-DFG-N 10

### **PCE-DFG N 10 Digital force gauge for tensile force measurement and pressure force measurement up to 10 N / Very high accuracy / Sampling rate 1600 Hz / 6 different measuring tips / USB interface / Software / Calibration certificate**

A digital force gauge for tensile and compressive force measurements up to 10 N is available with the PCE-DFG N 10. The PCE-DFG N 10 is a digital force meter for precise measurements with a resolution of 0.005 N. The measured values are displayed on a large, illuminated, 180° rotatable display, a correct reading of the measured values is thus guaranteed at all times. The outstanding accuracy of  $\pm 0.1\%$  FS is confirmed with the factory calibration certificate provided.

In addition to the internal storage option of 100 measured values, a USB interface is available for data transmission. With the software, the measured values can be saved on a computer for later evaluation. Due to its robust housing, a sensible menu navigation and the simple operation via 8 keys, the digital force meter PCE-DFG N 10 is characterized by a high degree of user-friendliness. The power supply of the dynamometer via batteries, which can be charged via a included charger and allow a continuous operation of the device of 10 hours. With these characteristics, the digital force gauge is suitable for quality control in the production area, for incoming and outgoing inspection as well as for the development of new components or for testing safety-relevant components.

- Pull and pressure force measurement
- 1600 Hz sampling rate
- Error limit 0.1% of the measuring range
- PEAK function (MIN / MAX)
- Limit value function
- Different measuring units
- Automatic or manual storage
- Graphical analysis
- Automatic orientation display
- Time date
- Control and evaluation software
- Automatic shutdown adjustable
- Battery status indicator
- Network operation possible

- Save 1000 readings
- Incl. ISO calibration certificate

#### **Technical specifications:**

|                                  |                                                            |
|----------------------------------|------------------------------------------------------------|
| Measuring range                  | 0 ... 10 N, 0 ... 2.25 lbs                                 |
| Accuracy                         | ± 0.1% of the measuring range                              |
| Resolution                       | 0.005 N                                                    |
| Measurement units                | N, kg, lb, KPa                                             |
| Display                          | 2.8" TFT graphic display                                   |
| Alarm Modes                      | Inside, Outside, Crack, Shutdown                           |
| Sampling rate                    | 6 ... 1600 Hz                                              |
| Storage                          | 100 measurements                                           |
| Power supply                     | NiMh battery 6V / 1600-mAh                                 |
| Battery life                     | About 10 hours                                             |
| Charging adapter                 | 12V / 1A                                                   |
| Outputs                          | Interface: USB<br>Switching output: 12V / 50-mA            |
| Protection class                 | IP 54                                                      |
| Operating and storage conditions | -10 ... 50°C / 14 ... 122°F<br>5 ... 95% rh non-condensing |
| Force-receiving piece            | M6 x 7 mm                                                  |
| Dimensions                       | 200 x 97 x 42 mm / 7.9 x 3.8 x 1.7 in                      |
| Weight                           | 540 g / 1.2 lbs                                            |

#### **Delivery contents:**

- 1 x PCE-DFG N 10 Force gauge
- 1 x Chisel head adapter
- 1 x Flat head adapter
- 1 x Pointed head adapter
- 1 x Hook adapter
- 1 x Notched head adapter
- 1 x Extension bar (90 mm / 3.5 in)
- 1 x PC software
- 1 x USB data cable
- 1 x Power supply
- 1 x Carrying case
- 1 x ISO calibration certificate
- 1 x User manual