FORCE GAUGE

PCE-PFG 500



- **4 measurement modes (real-time measurement / maximum value / average**
- **measurement / automatic memory measurement)**
- **Internal memory for up to 100 measured values**
- **Statistics evaluation (MIN / MAX / average)**
- **rotatable display**
- **Alarm function with multi-colored LED (yellow / green / red) and switching**

The PCE-PFG force measuring device is a handy, digital measuring device for measuring tensile and compressive forces. The force measuring device offers a sampling rate of 500 Hz and various measurement options such as real-time measurement (RT), maximum value measurement (PEAK), configurable average value acquisition (Average) and automatic measurement storage of up to 100 measurements.

The measurement data and a statistical evaluation of the data stored in the force measuring device (MIN / MAX / average) are shown on the graphic display and can be transferred to a PC via the USB interface. In addition, the force measuring device offers a limit value function MIN / MAX, which can switch a multi-colored LED (yellow / green / red) and switching contacts.

The graphic display can be rotated and the force measuring device can be securely attached to a test stand using the M4 threaded holes on the back. The force is introduced into the internally installed load cell via an M6 threaded rod. Various mounting pieces are included in the scope of delivery of the force measuring device. The force measuring device can be operated continuously for up to 36 hours on a single charge (without background lighting) and is a reliable partner as a mobile force measuring device.

Specification

Force	
Measuring range	0 ... 500 N
Resolution	0,1 N
Accuracy	±0.3% of range

General technical data	
Outputs	Switching output
Units	N, kgf, lbf
Connections	M6 x 10 mm
Display type	Graphic LCD
Display size	1,8 Inch
Measuring rate	500 Hz
Storage medium	Internal memory
Storage capacity	100 Measurements
Interface	USB-B
Operating time	36 h
Alarm modes	Below, within, beyond
Menu language	English, English (GB)
Protection class (device)	IP54
Power supply	5 V / 1 A
Connector type	Device-europlug
(Rechargeable) battery	1 x 3,7 V internal , Lithium-ion polymer battery
Capacity	1500 mAh
Operating conditions	5 ... 45 °C , 35 ... 65 % RH
Storage conditions	5 ... 45 °C , 35 ... 65 % RH
Dimensions (L x W x H)	189 x 80 x 36 mm
Weight	470 g