

Force Gauge PCE-DFG N 100K



**Force gauge PCE-DFG N 100K
with external S load cell, USB interface and PC software**

The force measuring device measures both tensile forces and compressive forces and this with a very high resolution. The tensile force or compressive force is often required in test laboratories, for example. The force gauge is supplied with an external measuring cell. The measuring cell is connected to the force measuring device by an approx. 6 m long sensor cable. The force measuring device or the force measuring cell has an M20 thread mount to initiate the tensile or compressive forces.

The force measuring device can work with a sampling rate of up to 1600 Hz. The scanned measured values are displayed as instantaneous values as well as in a graphical measurement curve directly in the force measuring device. The measurements can be stored in the internal memory or transferred as a live measurement via USB interface with the software included in the scope of delivery with a maximum of 800 Hz. The force measuring device has a graphic LCD that displays the measured values numerically and graphically. Furthermore, the force measuring device is protected according to IP54 and can therefore also be used in harsh industrial environments.

The force measuring device offers the possibility of storing two limit values that are continuously compared with the current value. If these limit values are exceeded or not reached, a signal appears in the display of the force measuring device, as well as a reaction via external interfaces, e.g. this can be used to control a testing machine.

- ▶ USB interface
- ▶ Graphic display
- ▶ Fast response time
- ▶ PC software incl.
- ▶ Memory for 100 measurements
- ▶ **Including ISO calibration certificate**

Specifications

Measuring range	0 ... 100 kN / 10,000 kg / 10 t
Resolution	10 N
Accuracy	± 1.0% of the measuring range
Measurement units	kN, t, klb, MPa
Display	2.8" TFT graphic display
Alarm modes	Inside, Outside, Crack/Overload, Shutdown
Sampling rate	6 ... 1600 Hz
Memory	100 measurements
Power supply	NiMh battery, 6 V / 1600 mAh
Battery life	approx. 10 hours
Power supply / charging adapter	12 V / 1 A
Outputs	interface: USB switching output: 12 V / 50 mA
Protection class handset	IP 54
Protection class load cell	IP 67
Operating and storage conditions	-10 ... 50 °C 5 ... 95 % r.h. not condensing
Dimensions of load cell	L 112.78 mm / H 177.8 mm / W 42.93 mm / M30 x 2 thread (see technical drawing)
Cable length load cell	ca. 6 m
Dimensions of handset	200 x 97 x 42 mm
Weight of handset	540 g
Weight of load cell	ca. 7 kg (eye bolts optional)

More information

More product info



Similar products



Subject to change