

## PCE-DFG NF 50K Dynamometer

### With external load cell, USB interface and PC software

The dynamometer with an external load cell is designed for the measurement of compressive forces at hard-to-reach measuring points. The pressure cell is connected to the dynamometer by a sensor cable of approx. 3 m length and thanks to the small cell dimensions it ensures a versatile application. The dynamometer or the load cell has on the bottom of several threaded holes that allow a firm installation.

The dynamometer can operate at a sampling rate of up to 1600 Hz. The sampled measured values are displayed as an instantaneous value, as well as in a graph trace directly in the dynamometer.

The measurements can be stored in the internal memory or transmitted via USB interface with the included software with a maximum of 800 Hz as a live measurement.

The PEAK Hold function allows freezing of the highest measured value in the dynamometer until this value is exceeded or cleared.

The dynamometer offers the option of storing two limit values, which are continuously compared with the instantaneous value. When exceeding or falling below these limits, a signal in the display of the dynamometer, as well as a reaction via external interfaces, which can be used for example for the control of a testing machine.

-		USB		interface
-		Graphic		display
-	Fast		response	time
-		PC		software
-	Memory	for	100	measurements
-	<b>Incl. ISO calibration certificate</b>			

### Specifications:

Measuring range	<b>0 ... 50 kN / 50,000 N / 5,000 kg / 11,240 lbs</b>
Resolution	5 N / 1.1 lbs
Accuracy	± 0.5% of the measuring range
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
Power adapter / charging adapter	12V / 1A
Outputs	Interface: USB switching output: 12V / 50-mA
Protection class	IP 54
Operating and storage conditions	-10 ... 50°C / -14 ... 122°F
	5 ... 95% rh non-condensing

Dimensions pressure cell	Ø 38 mm / H 16 mm / M5 thread (see technical drawing)
Cable length pressure cell	About 3 m / 9.8 ft
Dimensions	200 x 97 x 42 mm / 7.9 x 3.8 x 1.7 in
Weight	600 g / 1.3 lbs

**Delivery scope:**

- 1 x Dynamometer PCE-DFG NF 20K
- 1 x Pressure cell (depending on model)
- 1 x USB cable
- 1 x Charger
- 1 x PC software
- 1 x User manual
- 1 x ISO calibration certificate**