

50 K Load cell for PCE-DFG NF series PCE-DFG NF 50K load cell

PCE-DFG NF 50K Force Gauge With external load cell, USB interface and PC software

The force gauge 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 force gauge by a sensor cable of approx. 3 m length and thanks to the small cell dimensions it ensures a versatile application. The force gauge or the load cell has on the bottom of several threaded holes that allow a firm installation.

The force gauge 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 force gauge.

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 force gauge until this value is exceeded or cleared.

The force gauge 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 force gauge, 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
- Incl. ISO calibration certificate

Specifications:

Measuring range	0 ... 50 kN / 50,000 N / 5,000 kg / 11,240 lbs
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 Force gauge PCE-DFG NF 50K
- 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**