

FORCE GAUGE

PCE-DFG NF SERIES



- » USB interface
- » Graphic display
- » Fast response time
- » PC software
- » Memory for 100 measurements
- » Incl. ISO calibration certificate

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 load cell has several threaded holes on the underside, which allow a fixed 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 is displayed in the display of the force gauge, as well as a response via external interfaces, e.g. this can be used for the control of a testing machine.

General features and specifications PCE-DFG NF Series

Accuracy	0.1 % f. s.
Units	N, kg, lb, KPa
Display	2.8" TFT graphical display
Alarm modes	within, beyond, fracture, off
Sampling rate	6 ... 1600 Hz device 6...800 Hz software
Memory	100 measurements
Power supply	Ni-Hi rechargeable battery 6 V, 1600 mAh Battery life 10 hours
Mains adaptor	12 VDC 1 A;
Outputs	Communication via USB Output port 12 V, 50 mA
Operating conditions	-10 ... +50 °C; 5 ... 95 % RH, non-condensing
Protection class	IP 54



Force Gauge with external load cell

	PCE-DFG NF 0,5K	PCE-DFG NF 1K	PCE-DFG NF 2K	PCE-DFG NF 5K	PCE-DFG NF 10K
Max.	0 ... 500 N	0 ... 1.000 N	0...2.000 N	0...5.000 N	0 ... 10.000 N
Resolution	0,05 N	0,1 N	0,2 N	0,5 N	0,01 kN
Cell weight	18 g	18 g	58 g	58 g	58 g
Connection	3 m / Hirschmann ELST 5012 PG7	3 m / Hirschmann ELST 5012 PG7	3 m / Hirschmann ELST 5012 PG7	3 m / Hirschmann ELST 5012 PG7	3 m / Hirschmann ELST 5012 PG7
Cell	Stainless Steel 17-4PH / IP 65	Stainless Steel 17-4PH / IP 65	Stainless Steel 17-4PH / IP 65	Stainless Steel 17-4PH / IP 65	Stainless Steel 17-4PH / IP 65
Device dimensions	162 x 82 x 41 mm	162 x 82 x 41 mm	162 x 82 x 41 mm	162 x 82 x 41 mm	162 x 82 x 41 mm
Device weight	325 g	325 g	325 g	325 g	325 g

	PCE-DFG NF 20K	PCE-DFG NF 50K
Max.	0 ... 20.000 N	0...50.000 N
Resolution	0,02 kN	0,05 kN
Cell weight	92 g	92 g
Connection	3 m / Hirschmann ELST 5012 PG7	3 m / Hirschmann ELST 5012 PG7
Cell	Stainless Steel 17-4PH / IP 65	Stainless Steel 17-4PH / IP 65
Device dimensions	162 x 82 x 41 mm	162 x 82 x 41 mm
Device weight	325 g	325 g