

# FORCE GAUGE

## PCE-DFG N SERIES



- » Force measuring device for traction force and compression force) of hand-arm and whole body human vibration
- » Measuring range up to 10 kN (10,000 N)
- » max. 0.1 % error tolerance of measuring range
- » high measuring rate selectable (up to 1600 Hz)
- » internal memory
- » PEAK function (MIN / MAX)
- » Limit value function / measured value adjustment
- » statistical graphic evaluation
- » graphic display
- » menu navigation: German, English, Spanish
- » incl. PC software evaluation software
- » USB interface
- » max. overload 20%
- » mains and battery operation possible

The precision force gauge, for traction force and compression force, is available in two versions. Depending on the measuring range, the gauge has an internal or external load cell for traction force and compression force. The precision force gauge, for traction force and compression force, is a portable measuring instrument, whereby an installation possibility in force measuring stands has been considered.

For force measurements above 500 N, the precision force gauge has an external S load cell on a 3 m cable, which can also be placed in a load cell.

The force gauge measures both tensile and compressive forces with very high resolution. The tensile force and the compressive force are often determined in the test laboratory, for example, to determine the yield strength, the pull-off force, and the force required to actuate a push-button or switch. The force gauge is supplied with an external measuring cell. Depending on the model, the force gauge can measure up to 10,000 N / 2,248 lbs. Models for 1,000 N / 225 lbs, 2,500 N / 562 lbs and 5,000 N / 1,124 lbs are still available. Various eyelets or hooks with M10 or M12 thread can be adapted to the measuring cells, but your own devices with this thread can be mounted on the measuring cell.

## General features and specifications PCE-DFG N 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 internal dynamometric cell

	PCE-DFG N 2	PCE-DFG N 10	PCE-DFG N 20	PCE-DFG N 200	PCE-DFG N 500
Measurement range	0 ... 2 N	0 ... 10 N	0 ... 10 N	0...200 N	0...500 N
Resolution	0.001 N	0.005 N	0.01 N	0.1 N	0.1 N
Dimensions	200 x 97 x 42	200 x 97 x 42	200 x 97 x 42	200 x 97 x 42	200 x 97 x 42
Weight	approx. 540g	approx. 540g	approx. 540g	approx. 540g	approx. 540g

## Force Gauge with external dynamometric cell

	PCE-DFG N 1K	PCE-DFG N 2,5K	PCE-DFG N 5K	PCE-DFG N 10K
Measurement range	0 ... 1.000 N	0 ... 2.500 N	0...5.000 N	0...10.000 N
Resolution	0.5 N	1 N	1 N	0.005 kN
Cell dimensions	„76.2 x 50.8 x20.6 mm“	„76.2 x 50.8 x20.6 mm“	„76.2 x 50.8 x20.6 mm“	„76.2 x 50.8 x27.0 mm“
Cell thread	M10 x 1.5	M12 x 1.75	M12 x 1.75	M12 x 1.75
Cell protection class	IP 67	IP 67	IP 67	IP 67
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
Device weight	325 g	325 g	325 g	325 g