



Force Gauge PCE-DFG N Series



PCE-DFG N Series

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 loadcell on a 3 m cable, which can also be placed in a load cell.

- ▶ Force measuring device for traction force and compression force
- ▶ 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

General Features 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
Technical specification	
Force Gauge with internal dynamometric cell	
Model	PCE-DFG N 2
Measurement range	0 ... 2 N
Resolution	0.001 N
Dimensions	200 x 97 x 42 mm
Weight	approx. 540g
Force Gauge with external dynamometric cell	
Model	PCE-DFG N 2
Measurement range	0 ... 2 N
Resolution	0.001 N

Dimensions	200 x 97 x 42 mm
Weight	approx. 540g

Model	PCE-DFG N 10
Measurement range	0 ... 10 N
Resolution	0.005 N
Dimensions	200 x 97 x 42 mm
Weight	approx. 540g

Model	PCE-DFG N 20
Measurement range	0 ... 20 N
Resolution	0.01 N
Dimensions	200 x 97 x 42 mm
Weight	approx. 540g

Model	PCE-DFG N 200
Measurement range	0...200 N
Resolution	0.1 N
Dimensions	200 x 97 x 42 mm
Weight	approx. 540g

Model	PCE-DFG N 500
Measurement range	0...500 N
Resolution	0.1 N
Dimensions	200 x 97 x 42 mm
Weight	approx. 540g

Force gauge with external dynamometric cell

Model	PCE-DFG N 1K
Measurement range	0 ... 1.000 N
Resolution	0.5 N
Cell dimensions	"76.2 x 50.8 x20.6 mm"
Cell thread	M10 x 1.5
Cell protection class	IP 67
Device dimensions	162 x 82 x 41 mm
Device weight	325 g

Model	PCE-DFG N 2,5K
Measurement range	0 ... 2.500 N
Resolution	1 N
Cell dimensions	"76.2 x 50.8 x20.6 mm"
Cell thread	M12 x 1.75

Cell protection class	IP 67
Device dimensions	162 x 82 x 41 mm
Device weight	325 g

Model	PCE-DFG N 5K
Measurement range	0...5.000 N
Resolution	1 N
Cell dimensions	"76.2 x 50.8 x20.6 mm"
Cell thread	M12 x 1.75
Cell protection class	IP 67
Device dimensions	162 x 82 x 41 mm
Device weight	325 g

Model	PCE-DFG N 10K
Measurement range	0...10.000 N
Resolution	0.005 kN
Cell dimensions	"76.2 x 50.8 x27.0 mm"
Cell thread	M12 x 1.75
Cell protection class	IP 67
Device dimensions	162 x 82 x 41 mm
Device weight	325 g

Subject to change