

FORCE MEASUREMENT

FORCE GAUGE PCE-DFG NF 1K

Measurement of compressive forces with external load cell

The force gauge with an external load cell is designed for the measurement of compressive forces in hard-to-reach measuring locations. 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 versatile applications. The force gauge/load cell has several threaded holes at the bottom to enable

fixed installation. The force gauge can operate at a sampling rate of up to 1600 Hz. The sampled readings are displayed as an instantaneous value as well as in a graph showing the measurement curve directly in the force gauge.

ISO cal option

- ▶ USB interface
- ▶ graphical display
- ▶ fast response time
- ▶ PC software
- ▶ incl. calibration
- ▶ memory for 100 measurements



APPLICATION



TECHNICAL SPECIFICATIONS

Measurement range	0 ... 1000 N
Resolution	0.1 N
Accuracy	±0.5 % of meas. range
Measurement units	N, kg, lb, kPa
Display	2.8" TFT graphical display
Alarm modes	inside, outside, crack, shutdown
Sampling rate	6 ... 1600 Hz
Memory	100 measurements
Power supply	rechargeable NiMh battery, 6 V / 1600 mAh
Battery life	approx. 10 hours
Power adaptor / charging adaptor	12 V / 1 A
Outputs	interface: USB switching output: 12 V / 50 mA
Protection class	IP 54
Operating and storage conditions	-10 ... 50 °C 5 ... 95 % RH, non-condensing
Dimensions load cell	Ø 20 mm / H 12 mm / M3 thread (see technical drawing)
Cable length pressure cell	approx. 3 m
Dimensions	200 x 97 x 42 mm
Weight	540 g

Further models :

PCE-DFG NF 0,5K	Measurement range	0 ... 500 N
PCE-DFG NF 2K	Measurement range	0 ... 2000 N
PCE-DFG NF 5K	Measurement range	0 ... 5000 N
PCE-DFG NF 10K	Measurement range	0 ... 10000 N / 0 ... 10 kN
PCE-DFG NF 20K	Measurement range	0 ... 20000 N / 0 ... 20 kN
PCE-DFG NF 50K	Measurement range	0 ... 50000 N / 0 ... 50 kN



Subject to change without notice