

# FORCE MEASUREMENT

## FORCE GAUGE PCE-DFG N 10K

### With external measuring cell and USB interface for connection to a PC

The force gauge measures both tensile and compressive forces with a very high resolution. Tensile and compressive forces are often measured in test laboratories, 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. The PCE-DFG N 10K 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 also available. Various eyelets or hooks with M10 or M12 threads can be screwed into the measuring cells but other devices with the same thread can also be attached to the measuring cell.

### ISO cal option

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



### APPLICATION



## TECHNICAL SPECIFICATIONS

Measurement range	0 ... 10,000 N / 0 ... 2,248 lbs
Resolution	5 N
Accuracy	±0.1 % of the measuring range
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, 8000 values each
Power supply	rechargeable NiMH battery, 6 V / 1600 mAh
Battery life	approx. 10 h
Mains / 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 / 14 ... 122 °F 5 ... 95 % RH non-condensing
Mounting thread measuring cell	
up to 1000 N / 225 lbs	M10
2500 ... 10000 N / 562 ... 2,248 lbs	M12
Dimensions	200 x 97 x 42 mm / 7.9 x 3.8 x 1.7
Weight	540 g / 1.2 lbs

### Optional accessories:

Clamping device for tensile tests	Order code	PCE-SJJ012
Fork holder for tensile & compr. tests	Order code	PCE-SJJ09
Adaptor clamp for tensile tests	Order code	PCE-SJJ06
Round adaptor stamp for compr. tests	Order code	PCE-SJJ04
Adaptor for compr. tests	Order code	PCE-SJJ01
Clamping device for test stand	Order code	PCE-SJJ015

### Further models of the PCE-DFG N series:

PCE-DFG N 5	internal measuring	cell meas. range	0 ... 5 N
PCE-DFG N 10	internal measuring	cell meas. range	0 ... 10 N
PCE-DFG N 20	internal measuring	cell meas. range	0 ... 20 N
PCE-DFG N 200	internal measuring	cell meas. range	0 ... 200 N
PCE-DFG N 500	internal measuring	cell meas. range	0 ... 500 N
PCE-DFG N 1K	external measuring	cell meas. range	0 ... 1000 N / 100 kg
PCE-DFG N 2,5K	external measuring	cell meas. range	0 ... 2500 N / 250 kg
PCE-DFG N 5K	external measuring	cell meas. range	0 ... 5000 N / 500 kg
PCE-DFG N 20K	external measuring	cell meas. range	0 ... 20000 N / 2 t
PCE-DFG N 50K	external measuring	cell meas. range	0 ... 50000 N / 5 t
PCE-DFG N 100K	external measuring	cell meas. range	0 ... 100000 N / 10 t



Subject to change without notice