

# FORCE MEASUREMENT

## FORCE GAUGE PCE-DFG N 500

### Digital force gauge for tensile and compressive force measurement up to 500 N

The PCE-DFG N 500 is a digital force gauge for tensile and compressive force measurement up to 500 N. It has a resolution of 0.1 N. The measured values are shown on a large display with backlight which is rotatable by 180°. Therefore, reading the measured values correctly is possible in any position and at any time. The outstanding accuracy of  $\pm 0.1\%$  f. s. is confirmed

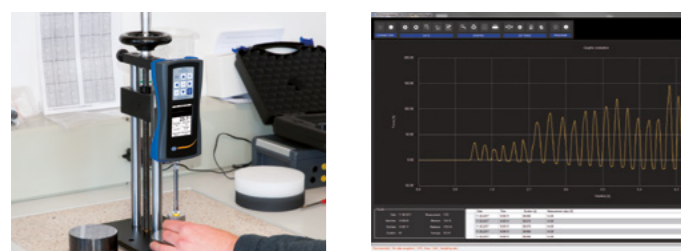
by the factory calibration certificate that comes with the meter. In addition to the internal memory with sufficient capacity for 100 readings, a USB interface is available for data transfer.

### ISO cal option

- ▶ tensile and compressive force measurement
- ▶ 1600 Hz sampling rate
- ▶ error limit 0.1 % of the measuring range
- ▶ PEAK function (MIN / MAX)
- ▶ limit value function
- ▶ various units of measurement
- ▶ automatic or manual storage
- ▶ graphical evaluation
- ▶ display with automatic orientation
- ▶ time / date
- ▶ control and evaluation software
- ▶ auto power off adjustable
- ▶ battery level indicator
- ▶ mains operation possible
- ▶ memory capacity for 100 measurements



### APPLICATION



## TECHNICAL SPECIFICATIONS

Measurement range	0 ... 500 N
Accuracy	$\pm 0.1\%$
Resolution	0.1 N
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
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
Force absorption element	M6 x 7 mm
Dimensions	200 x 97 x 42 mm / 7.9 x 3.8 x 1.7 in
Weight	540 g / 1.2 lbs

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

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

### Optional accessories:

Clamp for peel-off tests	Order code	PCE-SJJ035
Holder for button and rivet testing	Order code	PCE-SJJ032
Clamping device for bristle testing	Order code	PCE-SJJ029
Clamping device for bristle testing	Order code	PCE-SJJ020
Clamping device for tensile tests	Order code	PCE-SJJ012
Fork holder for tensile & compr. tests	Order code	PCE-SJJ09
Clamping tool for tensile tests	Order code	PCE-SJJ08
Clamping device for tensile tests	Order code	PCE-SJJ07
Adaptor clamp for tensile tests	Order code	PCE-SJJ010
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
Motorised force test stand	Order code	PCE-MTS50
Force test stand	Order code	PCE-FTS50
Clamping device for test stand	Order code	PCE-SJJ03
Adaptor ring for tensile tests	Order code	PCE-SJJ02
Clamping device for test stand	Order code	PCE-SJJ024
Clamping device for test stand	Order code	PCE-SJJ015
Clamping jaw for test stand	Order code	PCE-SJJ130
Clamping jaw for PCE-FTS50, PCE-FM 50/200	Order code	PCE-SJJ05
Clamping jaw for test stand PCE-FTS50	Order code	PCE-SJJ011



Subject to change without notice