

# FORCE MEASUREMENT DIGITAL FORCE GAUGE

## PCE-DFG K X Series

### Force gauge with external load cell for tensile and compressive force measurement up to 100 kN / 10 t

The force gauge can be used to measure both tensile and compressive forces with high accuracy. Tensile and compressive forces are often measured in the test laboratory. For example, to determine the yield point, the tear-off force or the force required to actuate buttons or switches. The force measuring device is supplied with an external measuring cell and can measure forces of up to 100,000 N. Various

eyelets or hooks with an M12 thread can be attached to the measuring cells. It is also possible to attach your own devices to the measuring cell using these threads.

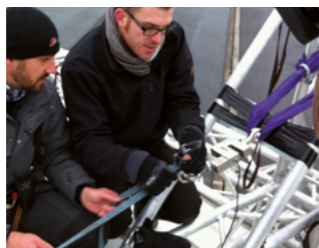
The internal memory of 32 GB offers space for 30 million measuring points. This allows measurement logs to be created, saved and exported.

### ISO cal option

- » measuring range up to 100,000 N
- » accuracy 0.05 % FS
- » sampling rate up to 7,200 Hz
- » limit value function
- » various units of measurement
- » graphical evaluation
- » memory for 30 x 1,000,000 readings
- » various alarm modes
- » time / date
- » control and evaluation software
- » USB-C interface
- » mains operation possible



## APPLICATION



## TECHNICAL SPECIFICATIONS

Model	Measuring range	Resolution
PCE-DFG 1K X	0 ... 1,000 N / 100 kg	0.5 N
PCE-DFG 2K5 X	0 ... 2,500 N / 250 kg	1 N
PCE-DFG 5K X	0 ... 5,000 N / 500 kg	1 N
PCE-DFG 10K X	0 ... 10,000 N / 1 t	2 N
PCE-DFG 20K X	0 ... 20,000 N / 2 t	2 N
PCE-DFG 50K X	0 ... 50,000 N / 5 t	5 N
PCE-DFG 100K X	0 ... 100,000 N / 10 t	10 N

### General technical data

Accuracy	±0.05 % FS
Units	N, kg, g, t, kN, Pa, kPa, Nm, Ncm, lb, ft
Display	2.8" TFT graphical display
Alarm modes	overrun, underrun, inside, outside
Alarm type	Visual, acoustic
Sampling rate	1 ... 7,200 Hz
Calibration	mV/V, individually up to 15 measuring points
Menu languages	German, English, French, Spanish, Italian, Dutch, Portuguese, Turkish, Polish, Russian, Chinese, Japanese, Danish
Memory	30 x 1 Mio data points
Power supply	internal: LiPo battery external: USB 5 V DC, 500 mA
Operating time	approx. 13 h
Interface	USB-C
Protection class	IP 52
Protection class measuring cell	IP 67
Operating and storage conditions	-20 ... 65 °C / -4 ... 149 °F, 10 ... 95 % RH non-condensing
Force absorption element	M6 x 7 mm
Dimensions	165 x 85 x 32 mm / 6.5 x 3.35 x 1.26 in
Weight handheld	255 g / 0.6 lbs

### Optional accessories:

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



PCE-SJJ06



PCE-SJJ015



Subject to change without notice