

FORCE MEASUREMENT DIGITAL FORCE GAUGE

PCE-DFG X Series

Force gauge with internal load cell for tensile and compressive force measurement up to 1,000 N

The force measuring device can be used to record 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 gauge has an internal measuring cell and can measure forces up to 1,000 N. Various eyelets or

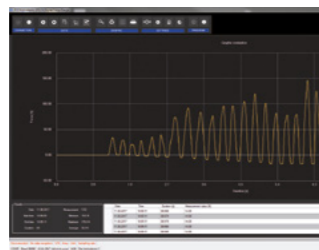
hooks with an M6 thread can be attached to the measuring cells. It is also possible to attach your own devices to the measuring cell using these threads. The internal memory of 32 GB offers space for 30 million measuring points. This allows measurement logs to be created, saved and exported. The force tester has a USB-C interface that can be used to read the measurement data into the PC software..

ISO cal option

- » measuring range up to 1,000 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 5 X	0 ... 5 N	0.001 N
PCE-DFG 10 X	0 ... 10 N	0.005 N
PCE-DFG 20 X	0 ... 20 N	0.01 N
PCE-DFG 200 X	0 ... 200 N	0.1 N
PCE-DFG 500 X	0 ... 500 N	0.1 N
PCE-DFG 1000 X	0 ... 1,000 N	0.5 N

General technical data

Accuracy	±0.05 % FS
Units	N, kg, g, t, kN, Pa, kPa, Nm, Ncm, lb, ft
Display	2.8" LCD 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
Memory	30 x 1 Mio data points
Power supply	internal: LiPo battery, external: USB 5 V DC, 500 mA
Menu languages	German, English, French, Spanish, Italian, Dutch, Portuguese, Turkish, Polish, Russian, Chinese, Japanese, Danish
Operating time	approx. 13 h
Interface	USB-C
Protection class	IP 52
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 / 65 x 33.5 x 12.6 in
Weight	540 g / 1.2 lbs

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
Clamping device for tensile tests	Order code	PCE-SJJ017
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



PCE-SJJ035



PCE-SJJ012



PCE-SJJ032



PCE-SJJ029



PCE-SJJ017



Subject to change without notice