DYNAMOMETER

PCE-DFG 100K X-ICA

» **Measuring range: 0 ... 100 kN**

» **Measuring rate: 1 ... 7200 Hz**

» **Accuracy: ±0.05 % F.S.**

» **Graphic display**

» **USB-C interface**

» **PC software**

» **32 GB memory for 30 mio. measuring points**

» **Measuring cells can be easily changed**

» **Various alarm modes**

» **Bar chart for displaying the measured value in the measuring range**

» **Calibration reminder**

The dynamometer 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 dynamometer is supplied with an external measuring cell and can measure forces of up to 100 kN. Various eyelets or hooks with an M33 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 dynamometer has a USB-C interface that can be used to read the measurement data into the PC software. The dynamometer is equipped with a graphic LCD that displays the measured values both numerically and graphically. In addition, a bar chart shows the measured value in the selected measuring range. The measuring cell is protected to IP67 and can therefore also be used in harsh industrial environments.

Various force test stands are available for adapting the dynamometer. A special feature of the dynamometer is the possibility to exchange the measuring cell between the models. By entering the sensitivity in mV/V, all measuring cells can be used with just one handheld device.

Specification

Force	
Measurement range up to	0 ... 100 kN
Resolution	10 N
Accuracy	±0.05 % F.S.

General technical data	
Units	kPa, kg, g, ft, N, lb, t, kn, Pa, Nm, Ncm
Display type	LCD with backlight
Display size	2,8 Inch
Adjustable measuring rate	1 ... 7200 Hz
Storage medium	Internal memory
Storage capacity	32 GB
Storage interval from	1 Hz
Storage interval to	7200 Hz
Interface	USB-C
Operating time	13 h
Automatic power-off from...to	1 ... 15 min.
Automatic power-off can be deactivated	Yes
Alarm	optical, Acoustic
Alarm modes	Within, beyond, fracture, off
Protection class measuring cell	IP67
Menu language	Turkish, English, Polish, Spanish, German, Chinese, Russian, Japanese, French, Danish, Italian, Dutch, Portuguese
Protection class (device)	IP52
Power supply	USB 5 V DC, 500 mA
Weight	255 g
Operating conditions	-20 ... 65 ºC , 10 ... 95 % r.F
Storage conditions	-20 ... 65 ºC , 10 ... 95 % r.F
Capacity	2500 mAh
Dimensions (L x W x H)	165 x 85 x 32 mm