DYNAMOMETER

PCE-DFG 500 X



- **Measuring range: 0 ... 500 N**
- **Measuring rate: 1 ... 7200 Hz**
- **Accuracy: ±0.05 % F.S.**
- **Graphic display**
- **USB-C interface**
- **PC software**

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 has an internal measuring cell and can measure forces of up to 500 N. Various eyelets or hooks with M6 threads 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. Various force test stands are available for adapting the dynamometer.

Specification

Force	
Measuring range	0 ... 500 N
Resolution	0,1 N
Accuracy	±0.05% FS

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.
Alarm	optical, Acoustic
Alarm modes	Within, beyond, fracture, off
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
(Rechargeable) battery	1 x 7,4 V DST604665 , Lithium polymer battery
Capacity	2200 mAh
Performance	16,28 Wh
Operating conditions	-20 ... 65 °C , 10 ... 95 % RH
Storage conditions	-20 ... 65 °C , 10 ... 95 % RH
Dimensions (L x W x H)	165 x 85 x 32 mm
Weight	255 g

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 4649020
info@pce-instruments.co.uk