FORCE GAUGE

PCE-DFG 50K XF

- **measurement range: 0 ... 50 kN**
- **sampling rate: 1 ... 7,200 Hz**
- **accuracy: ±0.05 % FS**
- **graphic display**
- **USB-C interface**
- **PC software (available soon)**
- **32 GB memory for 30 million measuring points**
- **various alarm modes**
- **bar chart displays reading within measurement range**
- **calibration reminder**

The force gauge with an external pressure load cell is designed for measuring compressive forces at measuring locations that are difficult to access. The force gauge or rather the pressure load cell has several threaded holes at the bottom that allow it to be mounted securely. The load cell is connected to the force gauge via an approx. 3 m long sensor cable and, thanks to the compact cell dimensions, it can be used for a wide range of applications.

The internal memory of 32 GB can hold 30 million measuring points. This allows measurement protocols to be created, saved and exported. The force gauge has a USB-C interface that can be used to import the measurement data into the PC software. The device is equipped with a graphic LCD that displays the measured values both numerically and graphically. In addition, a bar chart shows the measured value within the selected measurement range. The measuring cell is IP67 protected and can therefore also be used in rough industrial environments.

Specification

Force	
Measurement range up to	0 ... 50 kN
Resolution	5 N
Accuracy	±0.05 % FS

General technical data	
Units	N, kg, g, t, kn, Pa, kPa, Nm, Ncm, lb, ft
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
Capacity	2200 mAh
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
Other dimensions	Pressure load cell Ø 38 mm / H 16 mm / M5 thread
Weight	275 g
Other weights	Pressure load cell: 155 g