# FORCE GAUGE

## PCE-DFG OK5 XF

- **measurement range: 0 ... 500 N**
- **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 ... 500 N |
| Resolution | 0,5 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 |
| (Rechargeable) battery | 1 x 7,4 V internal , Lithium polymer battery |
| 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 20 mm / H 12 mm / M3 thread |
| Weight | 275 g |
| Other weights | Pressure load cell: 77 g |

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

Phone: +44 (0) 161 464902 0
info@pce-instruments.co.uk