

Shock Logger PCE-VDL series

Shock logger with up to 1600 Hz

The data loggers PCE-VDL series are available in two versions.

The data logger PCE-VDL 16I contains sensors for the following physical units: temperature, humidity, air pressure, light and 3-axis acceleration. The max. sampling rate of the acceleration sensor is 800 Hz, the other sensors are sampled with max. 1 Hz.

With the data logger PCE-VDL 24I the acceleration sensor is even delivered with a sampling rate of 1600 Hz.

Therefore, the shock- and vibration logger is ideally suited for application in fault diagnosis, stress testing, machine inspection, shock measurements and preventive maintenance.

The software provides data representation in

graphic formats and tables. This data can be transferred, for example, to MS Excel.

- ▶ 3-axis acceleration up to 1600 Hz (Model PCE-VDL 24I)
- ▶ 3-axis acceleration up to 800 Hz, temperature, humidity, air pressure and light (Model PCE-VDL 16I)
- ▶ 32 GB SD memory card
- ▶ small design: 86.8 x 44.1 x 22.2

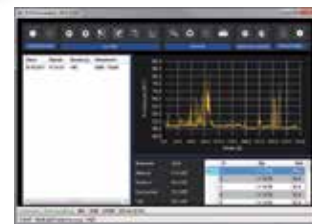
Specifications

Model: PCE-VDL 16I (5 sensors) / Max. sampling rate: 1 Hz

Temperature	
Measuring range	-20 ... 65 ° C / -4° F ... 149° F
Accuracy	± 0.2 ° C / 35.6° F
Resolution	0.01 ° C / 33.8 ° F
Humidity	
Measuring range	0 ... 100% RH
Accuracy	± 1.8% RH
Resolution	0.04% RH
Air pressure	
Measuring range	10 ... 2000 mbar
Accuracy	± 2 mbar (750 ... 1100 mbar); otherwise ± 4 mbar
Resolution	0.02 mbar
Light	
Measuring range	0.045 ... 188.000 lux
Resolution	0.045 lux
Max. sampling rate	1 Hz
3-axes acceleration	
Measuring range	± 16 g
Accuracy	0.24 g
Resolution	0.0039 g
Max. Sampling rate	800 Hz

Model: PCE-VDL 24I (1 sensor)

3-axes acceleration	
Measuring range	± 16 g
Accuracy	0.24 g
Resolution	0.0039 g
Max. sampling rate	1600 Hz



Memory and Software



Data logger with optional mounting plate PCE-VDL MNT



PCE-VDL 16I

The max. sampling rate of the acceleration sensor is 800 Hz, the other sensors are sampled with max. 1 Hz.

- ▶ integrated sensors: temperature, humidity, air pressure and light
- ▶ 3-axis acceleration
- ▶ max. sampling rate 800 Hz

ISO cal option

PCE-VDL 24I

With the data logger PCE-VDL 24I the acceleration sensor is even delivered with a sampling rate of 1600 Hz.

- ▶ integrated sensor: axis acceleration
- ▶ max. sampling rate 1600 Hz

ISO cal option