



Vibration Analyzer Sensor PCE-VMS 501



PCE-VMS 501 wireless Vibration Analyser sensor / to measure acceleration, speed, offset, and temperature / optional extension: max. 60 dispatchers per base with max. 6 base stations (360 dispatchers)

The wireless PCE-VMS 501 Vibration Sensor detects vibration within an acceleration range of up to 30 g and a frequency range between 5 and 10 KHz. The sensors can be easily attached to a machine due to their magnetic base. Not only do the sensors measure vibrations and transfer the measurements to a computer, but the sensors also recognize temperatures between -20 °C and +120 °C. If the system cannot establish a connection with the server, the measurements are temporarily saved on the receiving unit until a server-connection could be re-established. A main advantage of the wireless Vibration Analyser is that there are no wires, so that the set-up of the system is very quick and easy, and the wireless Vibration Analyser is able to record vibrations over a longer period of time.

- ▶ Wireless communication via ZigBee
- ▶ Frequency range between 5 Hz and 10 kHz
- ▶ Wireless transferring Piezo sensors
- ▶ Large radius of coverage
- ▶ Can be extended at any time
- ▶ Dispatcher IP 65 protected
- ▶ Temperature measurement up to 120 °C
- ▶ Data memory (receiving base) 128 MB
- ▶ Long battery lifetime
- ▶ No extensive wiring required

Subject to change



Specifications

Transmitter range	Max. 100 m in industrial environment (130 m in free field)
acceleration range	up to 300 m / s²
frequency range	5 Hz ... 10 KHz
resonant frequency	16 kHz
linearity	1 %
quench	≤5%
Electric Isolation	<108 Ω
load limit	1000 g
measurement parameters	Acceleration, speed, displacement, temperature minute 1 min. Per sensor
transmission interval	1 sensor on a box = 1 minute, 3 sensors on a box = 3 minutes
A / D conversion	24 bits
Waveform measurement range	Max. 512 kB
frequency lines	800, 1600, 3200, 6400
Temperature measuring range	-20 ... +120 ° C
screw thread	6 mm
housing material	Floor 316 L stainless steel, top aluminum alloy
power supply	1 x 3.6 V lithium battery (ER 34335)
Battery life	1 year, depending on the transmission interval
Dimensions	Height: 80 mm Diameter: 40 mm
mass	217 g
protection class	IP65
working temperature	-30 ... +70 ° C (surface temperature up to 125 ° C)

More information

Manual



More product info



Similar products



Subject to change