

Vibration Analyzer PCE-VMS 504



PCE-VMS 504 wireless Vibration Analyser with external vibration sensors/ 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 504 Vibration Analyser detects vibration within an acceleration range of up to 30 g and a frequency range between 5 and 10 KHz. The wireless Vibration Analyser features external vibration sensors which measure vibrations on machines and transfer those measurements wirelessly to a receiving unit. 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. While operating, the communicating server of the PCE-VMS 504 Vibration Analyser sends the measured parameters straight to a receiving unit, which then uploads the received data straight to a server. 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

Specifications

Technical Specifications

Communication type	ZigBee (with PCE-VMS 501) ethernet, glass fibre cable, wireless (with server)
Frequency band	2.4 GHz
Interfaces	Ethernet 2.0 IEEE802.3, TCP/IP, 10/100baseT
Data storage capacity	128 MB
Power supply	220 VAC/110 VAC or POE
Operating temperature	-20 °C ... +50 °C -4 °F ... 122 °F
Dimensions	250 mm x 210 mm x 100 mm 9.8 in x 8.3 in x 3.9 in
Weight	2400 g / 5.3 lbs

Technical Specifications about dispatcher

Dispatch range	max. 100 m / 328 ft in industrial environment (130 m/ 426.5 ft in free field)
Acceleration range	up to 300 m/s ²
Frequency range	5 Hz ... 10 kHz
Resonance frequency	16 kHz
Linearity	1 %
Sensitivity for parameters that are not relevant for measurement	≤5 %
Electric insulation	<108 Ω
Load limit	1000 g / 2.2 lbs
Measuring parameters	Acceleration, speed, temperature, offset
Dispatch interval	min. 1 minute per sensor 1 sensor at 1 box = 1 minute 3 sensors at one box= 3 minutes
A/D conversion	24 Bit
Measurable range for wave form	max. 512 kB
Frequency lines	800, 1600, 3200, 6400
Measurement range for temperature	-20 ... +120 °C -4 °F ... 248 °F
Screw thread	6 mm
Material of enclosure	Bottom 316 L stainless steel, top aluminum alloy
Power supply	1 x 3,6 V lithium battery (ER 34335)
Battery lifetime	1 year, depending on transfer interval
Dimensions	height: 80 mm / 3.1 in diameter: 40 mm / 1.6 in
Weight	217 g / 0.5 lbs
Protection class	IP 65
Operation temperature	-30 °C ... +70 °C / 86 °F ... 158 °F (Surface temperature up to 125 °C / 257 °F)

More information

Manual



More product info



Similar products



Subject to change