Vibration Monitor VS11



Application

- Vibration monitoring in time or frequency domain
- Monitoring of vibration velocity (severity) of rotating machinery to ISO 20816-1
- Vibration monitoring of reciprocating engines to ISO 10816-6
- Monitoring of pumps, compressors, centrifuges, ventilators, mills, and mixers
- Monitoring of bearing vibration with frequency analysis
- Emergency shut-off or alarm tripping in case of increasing vibration
- Production quality control

Properties

- Built-in piezo accelerometer
- Intelligent vibration switch with extended functionality
- Monitors vibration acceleration and velocity
- \bullet 60 frequency ranges from 0.1 to 10 000 Hz for RMS and peak values programmable
- FFT with 10 free adjustable alarm bands for frequency selective monitoring
- Indication of warning and alarm by flashing LEDs
- Parameter setup via USB
- Teach-in function for automatic threshold setting
- Robust and waterproof aluminum case
- Connection via spring terminals



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Technical Data

Measurement functions

Vibration acceleration	
Vibration velocity/severity	
True RMS value	
True pak value	
0.1 to 1000	m/s²
1 bis 1000	mm/s
1; 10; 100; autoranging	
±1 (> 10 % of full scale; mid-band)	%
24	Bit
0.1; 2; 5; 10; 20; 50; 100; 200; 500; 1000	Hz
2; 5; 10	Hz
100; 200; 500; 1000; 2000; 5000; 10000	Hz
1000	Hz
FFT	
360 points	
2 to 1000 or 20 to 10000 Hz	
Spectral monitoring with limit line of 10 free frequency bands	
FFT transmission via USB	
	Vibration velocity/severity True RMS value True pak value 0.1 to 1000 1 bis 1000 1; 10; 100; autoranging ±1 (> 10 % of full scale; mid-band) 24 0.1; 2; 5; 10; 20; 50; 100; 200; 500; 1000 2; 5; 10 100; 200; 500; 1000; 2000; 5000; 10000 1000 FFT 360 points 2 to 1000 or 20 to 10000 Hz Spectral monitoring with limit line of 10 free frequency band

Connectors

Input channels	1	
Relay output	PhotoMOS relay; 60 VAC; 0.5 A; spring terminals	
Relay trip delay	0 to 99; via interface	S
Relay hold time	1 to 9; via interface	s
Digital interfaces	USB 2.0 FS; Micro; internal	
	CDC mode; ASCII command set	

Power Supply

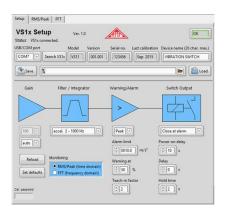
External supply voltage	5 to 30	VDC
External supply current	<100	mA
Supply connection	Spring terminals	
	USB Micro: internal	

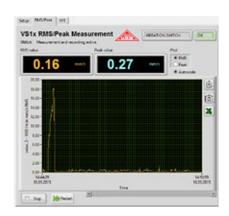
Case Data

Dimensions without connectors	50 x 52 (ø x H)	mm
Case material	Aluminum; Nickel coated	
Weight	160	g
Protection grade	IP67	
Operating temperature range	-40 to 80 (95 % rel. humidity without condensation)	°C

Notice

For the setup via USB or RS-485 a free software tool is provided.







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