

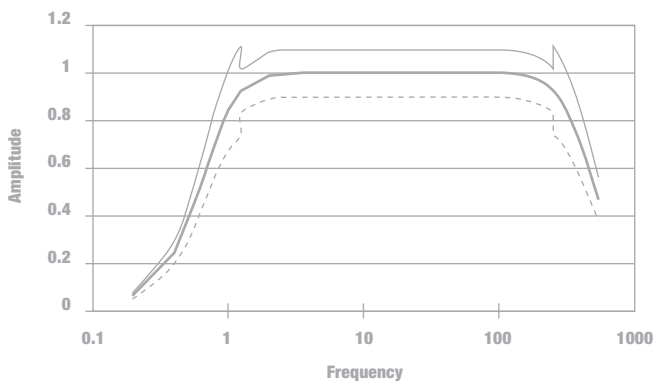


MS2003+ Velocity Sensor conforms to DIN 45669 A3HV 315/1

The MS2003+ velocity sensor is best suited for vibration monitoring according to DIN 4150. The excellent dynamic range and the broad frequency range fully cover the needs of the engineer in charge with structural dynamics.

The rugged construction of the MS2003+ is designed to withstand the rough outdoor use. Each axis of the MS2003+ is calibrated individually.

The sensor is shipped with a calibration certificate.



— upper limit
 — Frequency response (MS2003+)
 - - - lower limit

Technical Specification MS2003+

Performance

Type	Velocity sensor with linearized frequency response and built-in amplification (Deep Red Option) (corresponds to short period geophone) A3HV 315/1 (triaxial) (according to DIN 45669) A1H 315/1 and A1V 315/1 (single axis)	
		Deep Red Option
Principle	Active, electronically equalized geophone	
Measuring range full scale	±11.4 cm/s (f> 9 Hz), down to 1.2 cm/s (f=1 Hz)	±2.28 mm/s
Sensitivity	0.39 V/cm/s (calibrated at 16 Hz)	19.5 V/cm/s
Case-to-coil motion	4 mm p-p	
Frequency range	1 – 350 Hz (linear ±10% frequency response), see chart below	
Dynamic range	> 130 dB	110 dB
Linearity / Phase	According to DIN 45669 (class 1)	
Cross axis sensitivity	According to DIN 45669 (< 5%)	
Supply voltage	±5.0 V	
Power consumption	< 10 mA (per axis)	<20 mA
Output voltage	0 V ± 4.5 V	
Temperature range	-30°C to +60°C	
Housing	Aluminium	
Protection	IP 65 (splash-proof)	
Self-Test	Integrated, active self-test (Mechanical and electronic tests)	

MS2003+ triaxial

Dimensions	122 x 120 x 80 mm
Weight	1.55 kg
Connector	Metallic self-latching push-pull connector with positioning key
Accessories	Mounting platform with levelling screws, weight: 1.9 kg
Option	Connector for external z-axis

MS2003+ single axis (horizontal or vertical)

Dimensions	80 x 75 x 57 mm
Weight	0.45 kg
Connection	0.5 m interconnection cable with metallic, self-latching push-pull connector with positioning key
Accessories	- Interconnection box (input for 3 single axis sensors, output like triaxial sensor) - Extension lead

Ordering Information

		Product Codes
MS2003+ triaxial	Horizontal mounting	14.11.0222
Calibration certificate	In compliance with DIN 45669 part 3	30.10.0002
MS2003+ triaxial	For additional external vertical sensor	14.11.0223
Calibration certificate	In compliance with DIN 45669 part 3	30.10.0002
MS2003+ uniaxial	Horizontal mounting, vertical axis	14.11.0221
Calibration certificate	In compliance with DIN 45669 part 3	30.10.0003
MS2003+ uniaxial	Horizontal mounting, horizontal axis	14.11.0220
Calibration certificate	In compliance with DIN 45669 part 3	30.10.0004