



Overview

The VE Velocity Sensors are engineered for consistent performance over a long lifetime. Advanced computerised testing, manufacturing techniques and quality control are used in the production process to provide both the uniform parameters and the rugged qualities required in modern velocity sensors.

The sensor module has proven itself successfully worldwide for many years in different applications. The symmetrical rotating dual coil construction minimises the force on the spring arms. The use of precious metals ensure optimum electrical contact and a long operating life.

The VE Velocity Sensor has a 3 dB cutoff frequency at 4.5 Hz, making it suitable for a wide range of applications in civil engineering and general vibration measurement. The VE-33 is a triaxial velocity sensor.

The VE Velocity Sensors are housed in a very compact 195 x 112 x 95 mm case. The sealed cast aluminium housing contains an MS-style connector or a sealed cable inlet. The housing also

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Key Features

- Sensitivity G 27.3 Vs/m
- Bandwidth 4.5 Hz to 315 Hz
- Civil engineering and general vibration measurement applications
- Single bolt mounted housing provides up to ± 10° of levelling adjustment
- Surface and wall mount
- Temperature compensated

incorporates a single bolt mount with three levelling screws, which offers extended adjusting capability during mounting.

Applications

- Civil engineering
- General vibration measurement







VE-33 Velocity Sensor

Specifications

General Characteristics

Application: Civil engineering, general vibration

measurement

Configurations:

Axes Horizontal, V: Vertical

Alignment** H-H-V

VE-33:

Specification

Instrument type: Digital grade long travel geo-phones

Dynamic range: > 96 dB

Linearity: < 0.3% of full scale Cross axis sensitivity: < 0.1% of full scale Frequency response: 4.5 to 315 Hz standard 0.7 Damping: Sensitivity G: 27.3 Vs/m Output impedance: 430Ω

Measuring range: See plot, bottom left

Power

Supply Voltage: No power required

Connector Pin Configuration

Signal output for axes X, Y, Z Pin 1-2, 3-4, 5-6:

Shield Pin 7:

Environment / Housing

Cast aluminium Housing type:

Sealed access cover

195 x 112 x 95 mm Housing size:

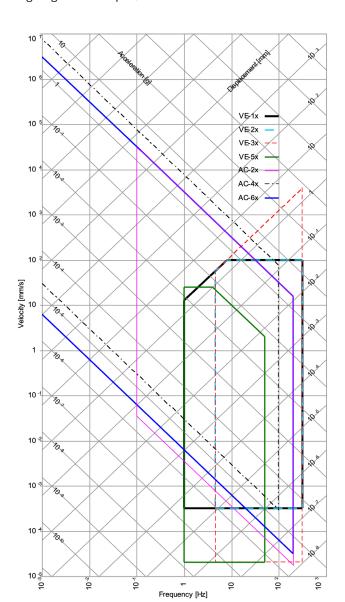
Weight: 1.0 kg IP65 Index of protection:

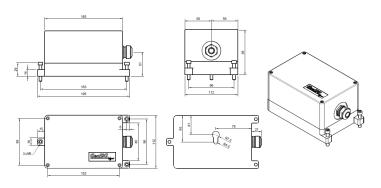
Temperature range: -25 to 85 °C (operating)

-40 to 100 °C (storage)

Humidity: O to 100% (non-condensing)

Mounting: Single bolt, surface mount, adjustable within





Standard VE-3x Floor mounted

> 2 m cable with sensor mating connector, concrete anchor and user manual on CD

Ordering Information

Specify: Type of VE-33 and other applicable options





