The VE 31-V is a triaxial velocity sensor.

The VE Velocity Sensors have their 3 dB at 4.5 Hz and can be used for a variety of civil engineering and general vibration measurement applications. The VE-31-H is uniaxial horizontal, the VE-31-V uniaxial vertical, VE-32 biaxial and the VE-33 is a triaxial velocity sensor.

The VE Velocity Sensors are housed in a very compact 195 x 112 x 96 mm case. The sealed cast aluminum housing contains a MS style connector or a sealed cable inlet. The housing also incorporates a single bolt mount with three levelling screws, which offers extended adjusting capability during mounting.
**General Characteristics**

**Application:** Civil engineering, general vibration measurement

**Configurations:**

| VE-33: | Triaxial | X – Y – Z | H – H – V |
| VE-32-HV: | Biaxial | X (or Y) – Z | H – V |
| VE-31-H: | Uniaxial | X (or Y) | H |
| VE-31-V: | | Z | V |

**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

**Damping:** standard 0.7

**Sensitivity G:** 27.3 Vs/m

**Output Impedance:** 430 Ω

**Measuring Range:** See plot

**Power**

**Supply Voltage:** no power required

**Connector Pin Configuration**

- Pin 1-2, 3-4, 5-6: Signal output for axis X, Y, Z
- Pin 7: Shield

**Environment / Housing**

- **Housing Type:** Cast aluminium
- **Sealed access cover**
- **Housing Size:** 195 x 112 x 96 mm
- **Weight:** 1.0 kg
- **Index of Protection:** IP 65
- **Temperature Range:** -25 to 85 °C (operating)
  -40 to 100 °C (storage)
- **Humidity:** 0 to 100 % (non-condensing)
- **Mounting:** Single bolt, surface mount, adjustable within ± 10°

**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-3x, and other applicable options

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![Graph showing acceleration, displacement, and frequency response for different configurations of VE sensors.](attachment:image.png)