

# Peak Particle Velocity Meter Model VM-01D



## Overview

- The VM-01D measures one of the three components of ground particle velocity, normally vertical, and displays the peak reading on the large liquid crystal display, which is easily read in both daylight and poor lighting underground. The reading is held until power is switched off.
- The single power switch allows for ease of operation; the VM-01D also resets the display should undesired events be captured.
- The VM-01D is supplied in a protective carrying case together with a sensor, metal block and spike anchoring attachments.

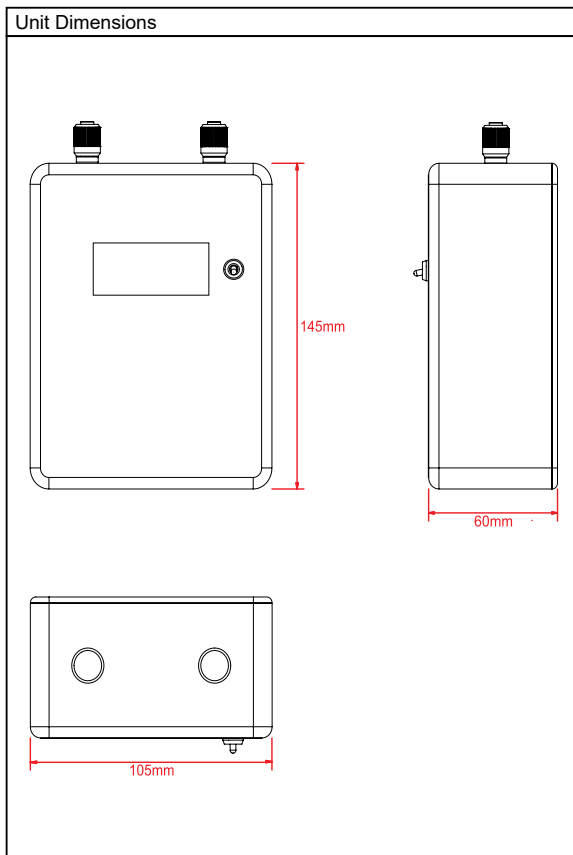
## Operation

- As the VM-01D measures only a single component of ground particle velocity, the reading is usually doubled, where necessary, to allow for the other two components. This adjusted value is used to assess the likelihood of structural damage.
- The VM-01D is powered by a replaceable PP3 9V Alkaline battery and is capable of 25 hours of continuous use.

## Notice and Maintenance

- All service work must be performed by authorised AEC Electronics personnel only.
- The VM-01D should only be opened to replace PP3 9V Alkaline battery.
- Exposure to temperatures above 60°C will cause permanent damage to the liquid crystal display.

## Specifications



Measuring Range	0.2-100mm/s.	
Accuracy	±0.5%±0.2mm/s.	
Frequency Response	4.5-100Hz at -3dB.	
Velocity Sensor	Electro-dynamic, vertical sensitivity (horizontal sensitivity on request).	
Battery	Type	PP3 9V Alkaline.
	Capacity	25 hours continuous use. Replace when display shows LO BAT.
Unit Dimensions	Instrument	145mm x 105mm x 60mm.
	Case	210mm x 190mm x 110mm.
Unit Mass	Instrument	0.3kg.
	Case	3.3kg.
Temperature Range	-5°C to 45°C.	

### Warning and Disclaimer

The information and recommendations in this document are provided for reference purposes only and should not be construed as advice to cover every application of the product or variation of conditions under which the product may be used.