



CAMPBELL ASSOCIATES
SOUND, VIBRATION & AIR SOLUTIONS

AVA M80 VIBRATION MONITOR



The system is designed to work unattended around the clock, without external power sources, for an extended period of time in demanding outdoor environments.

In the field, measurements are started and stopped with one push of a button. Close the lid and leave the battery-operated instrument out in the snow, cold, rain and bad weather for the long term.

A very energy efficient design provides up to eight months of battery operation to provide you with superior project economy.



All data is uploaded directly to the Sonitus Cloud (or any other cloud service); the secure online platform where you can access all the activity from your monitor(s).



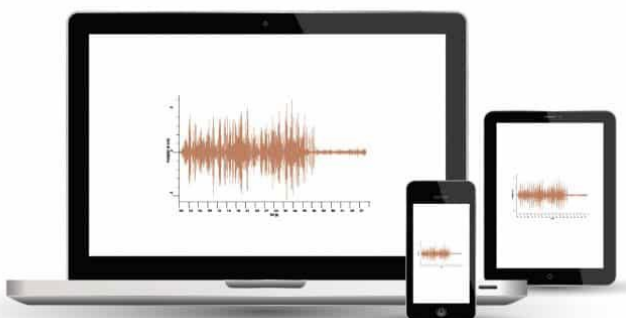
SET USER
PERMISSIONS



SMS & EMAIL
ALERTS



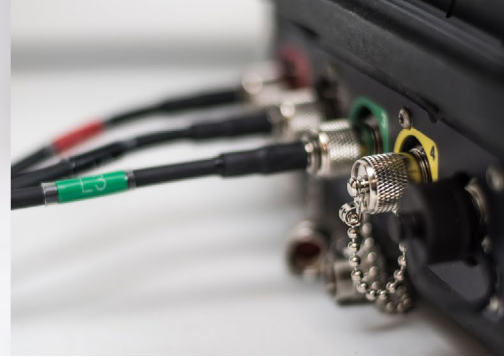
SECURE AND
SAFE




SONITUS
CLOUD

CONTACT US TODAY

www.campbell-associates.co.uk | 01371 871030 | hotline@campbell-associates.co.uk



DATA ACQUISITION

Channels: Four independent user defined channels with individual filter and sensor configuration

Triggered Recording: Synchronized waveform recording on all active channels

Periodic Recording: Continuous recording of peak values with configurable time interval

Environment Recording: Periodic recording of temperature and battery voltage

Trigger Level: Configurable within entire vibration measurement range

PHYSICAL SPECIFICATIONS

Dimensions: 302 x 247 x 125 mm

Weight: 3,9 kg including batteries

Power Supply: Batteries - 6 x LR20 (D cells)

Battery Runtime: Up to 240 days depending on configuration, temperature and communication patterns

External Power: AC/DC adapter

Communication: Ethernet

10/100 Mbit, RJ45 port

GSM/GPRS

Dual band 900/1800 MHz, Power Class 4 (2W)@900

MHz, Power Class 1 (1W)@1800 MHz, GPRS Class 10

User Interface: Remote configuration and data analysis using Sonitus Cloud

Simple MMI with push buttons and LED indicators

Temperature: -20 °C to +50 °C

Relative Humidity: 10% to 90%

Air Pressure: 86 kPa to 108 kPa



SIGNAL PROCESSING

Sample Rate

6 kHz (down-sampled to 3 kHz in collected waveforms)

Frequency Range

1 Hz to 500 Hz (filter profile dependent)

Filter Profiles

Blasting (SS 460 48 66)

Blasting (NS 8141-1)

Blasting (BS 7385-1) (BS5228-2)

Blasting (ISO 4866)

Piling (BS 7385-1) (BS5228-2)

Piling (NS8141-2:2013)

Piling (ISO 4866)

Comfort (SS 460 48 61, ISO 8041)

Airblast (SS 02 52 10, NS 8141-1)

Structural Damage, 1-80 Hz

(DIN 4150-3, DIN 45669-1)

Structural Damage, 1-315 Hz

VIBRATION SENSORS

Sensor Interface

Analog sensor interface, 4 TNC ports

Selftest

Automatic selftest for geophone sensor

Supported Sensors

Geophone (horizontal, vertical and tri-axial),

0–250mm/s (0–10mm/s RMS for comfort

measurements)

Accelerometer 0-40 m/s²

Airblast Microphone, 10-1000 Pa

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