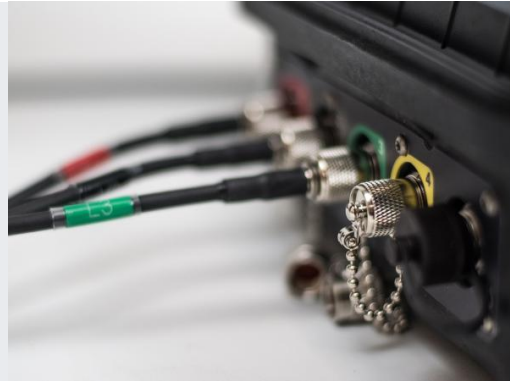


# AVA M80 VIBRATION MONITORING

PRODUCT CODE: AVAM80

The system is designed for maximum ease-of-use even in harsh outdoor conditions. Deploy your instruments and start or stop measurements at the press of a button, now with a built-in spirit level.










## AVA M80 FEATURES

- Up to 8 Month Battery Life
- 3G/2G modem for quicker access to results
- Sleek design with built in spirit level
- Compact and Portable
- Automatic SMS and email alerts
- Remote access
- Web based system
- Output for flashing local alarm unit

A system for you to monitor vibration in an easy & cost effective way, giving you all you need to manage real-time vibration data online, now with a built in spirit level.

**Vibration monitoring - Simple setup with outstanding battery life**

-  New 3G/2G modem for quicker access to results
-  Measure and monitor vibration for BS5228 part 2
-  Output for flashing local alarm unit
-  Automatic reporting
-  SMS & email alerts
-  110v - 240v or 12v batteries (6-month battery life)
-  Plug & play - connect power & your system is running

## Reliable and secure vibration monitoring

- Continuous measurement and operational vibration monitoring around the clock
- Real-time measurement data - Reach your data anywhere, at any time from any device
- Reliable field equipment that withstands a tough outdoor environment
- Automatic alerts by e-mail and SMS

## Vibration monitoring on site

The ideal vibration monitor for:

- Ground vibration monitoring
- Piling vibration monitoring
- Blast vibration monitoring
- Demolition activities monitoring
- Enabling works monitoring

## Superior project economy

- Up to five-months battery life (external 230V adapter can be connected when necessary)
- Automatic measurement provides minimal manual handling
- Remote-controlled field instruments minimise the number of trips to the measurement site
- Simple handling of field instruments, one button-push for start/stop
- Reading, communication and monitoring of measurement data online
- Education and support online

# 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

## Waveform Length

- Configurable up to 60 seconds

## Pre-trigger

- Configurable up to 10 seconds

## Consecutive Triggering

- Up to three consecutive triggered events with continuous recording without dead time
- 
- Storage

## Waveforms

- 255 waveforms

## Periodic Vibration Measurements

- 4000 periodic measurement records (all active channels)

## Triggered Vibration Measurements

- 1000 triggered measurement records (all active channels)

# VIBRATION SENSORS

## Sensor Interface

- Analog sensor interface, 4 TNC ports

## Self-test

- Automatic self-test 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/s<sup>2</sup>
- Airblast Microphone, 10-1000 Pa

## Power Supply

### Batteries

6 x LR20 (D cells)

### Battery Runtime

Up to 150 days depending on configuration, temperature and communication patterns

## 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, Coding scheme 1 to 4, Internal antenna

### User Interface

Remote configuration and data analysis using AvaNet/Sonitus portal. Simple MMI with push buttons and LED indicators

## Operating Environment

### Temperature

-20 °C to +50 °C

### Relative Humidity

10% to 90%

### Air Pressure

86 kPa to 108 kPa