

# Technical Specification

## Common Features

Vibration 3 or 6 channels: single or triaxial, acceleration, displacement, velocity, frequency, resultant peak particle velocity using 0.5hz accelerometer. Linear air overpressure.

Noise (leq) option type 1 precision grade noise analyser.

Leqs: overall max 5 min, hourly leq +5 min, L10, L30, L50, L90, Lmax, user definable period for leq, 5 min leq, L10, L30, L50, L90, other percentiles optional.

Data tabulated to user defined intervals.

Three modes of operation: impulse, continuous or dual mode, incorporating 3 event timer Battery/mains power operated, incorporating internal battery charger VDV and DIN filter options.

## MODES

**AUTOMATIC TRIGGER (IMPULSE) MODE:** Triggers on any vibration exceeding the user defined trigger value. Used for blast monitoring or similar events. Event length user-selectable.

### CONTINUOUS MODE

Used to record Peak Vibration and Noise Leq (in dB(A) or (C)) over extended periods. Manual or automatic operation using 3-event timer, repeated daily. Data tabulated at user defined intervals. Ideal for Noise surveys and monitoring of general construction operations to ensure compliance with project limits. Applications include: Piling, Railways, Highways, Bridges etc.

### DUAL MODE

Continuous monitoring for Vibration and Air Overpressure, with vibration exceeding the trigger value producing an impulse event. Each impulse event is printed as it occurs, with the continuous event printed at the end of the monitoring period.

Real Time Calendar/Clock for Date/Time print-out with results and 3 event timer per day for unattended operation of several weeks. LCD Display of 4 lines by 20 characters and full QWERTY keyboard. Internal Printer/Plotter, 4 colour for superimposed graphs on plain or graph paper, complete with Take-up Spool and cover. User-friendly software - Reprinting Event; 1 Min Pause; Quantity of full results printed before returning to Block Print-out when left unattended. Separate or combined graphs, user selectable.

Battery/Mains operated incorporating internal battery charger. Battery life: Typically 5 days; High capacity option typically 15 days. Computer Interface (RS232) and P.C. Software if required. Strong Case sealed to IP65, Weight: 10.5Kg.

Magus Electronics also offers a competitive consultancy service, whereby we can send an engineer on site to provide a monitoring service, which includes equipment hire and a full report of the results downloaded from the unit.