

S P E C I F I C A T I O N S

INPUT RANGE:

VIBRATION:

Gain x 1 = 0.6 to 100mm/S Velocity. Resolution 0.2mm/S.
Gain x 10 = 0.06 to 10mm/S Velocity. Resolution 0.02mm/S.
Fully auto-ranging within the gain selected.

NOISE:

Dynamic Range: 60 dB (10dB below base 50dB above base).
Base Selectable: 20, 40, 60, 80, 100.
Resolution: 0.1dB.

TRIGGER LEVEL:

USER SELECTABLE:

Gain x 1 = 0.6 to 100mm/S Velocity.
Gain x 10 = 0.06 to 10mm/S Velocity.

CUT OFF DELAY:

User-selectable from 0.1 to 1 second. Used to reduce event length if event falls below trigger level for more than selected delay.

SAMPLING RATE:

VIBRATION: User-selectable from 200 to 1000Hz. Impulse mode only.

EVENT LENGTH:

User-selectable - from 0.1 up to 60 seconds without Flash Card Option.
Automatic calculation of maximum length available (depending on number of channels, Sampling Rate and memory installed).

FREQUENCY RESPONSE:

VIBRATION: 0.5Hz TO 1KHz, with standard accelerometers.
NOISE: A or C weighted, Linear for Air Overpressure to IEC651.
Octave filters option.

MEMORY:

DATA RAM: 32K. Expandable to 160K without the Flash Card Option.
Protected by a separate battery. User information store for 10 fields,
12 characters/field and all user-selected options, with data retention for up to 10 years.

STANDARD CHANNELS:

VIBRATION ONLY: 3 Channels (1 triaxial or 3 single axis transducers)
OR 6 Channels (2 triaxial or 6 single axis transducers).
NOISE ONLY: Single Channel, Type 1 Precision Grade microphone.
SIMULTANEOUS NOISE AND VIBRATION: 4 or 7 Channels
(1 Noise Channel + 3 or 6 Channels of Vibration).

PRINT-OUT: User-selectable.

NONE: Only valid with PC or Flash Card Option.

BLOCK RESULTS:

VIBRATION: Displacement, Acceleration, Velocity, Frequency,
Resultant Velocity and Air Overpressure (Leq in the Continuous Mode).
NOISE: Leqs of Overall, Max 5 min, interval, Max 5 min per interval,
L10, L30, L50, L90 Percentiles, LMAX. Additional user definable interval
for Leq, Max 5 min Leq, L10, L30, L50, L90. Other percentiles optional.

FULL: As Block results with additional user data, Velocity and Air
Overpressure or Leq graphs.

TRANSDUCERS:

VIBRATION: TA1 (3 accelerometers mounted triaxially) or VT1
(single accelerometer) as required.
NOISE: Type 1 Precision Grade Microphone for Leq noise linear sub
4Hz for Air Overpressure data. Remote mounting up to 10M.

STANDARDS:

VIBRATION: BS6472, BS7385, BS6955 and DIN 4150.
NOISE: BS4142, IEC651, BS5228, BS5969 and ANSI S1.4 Type 1.

The specifications contained in this leaflet are subject to change due to further development of the product. Please contact our sales office on 01270-761120 for the latest specifications.

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 Sound 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 construction operations to ensure compliance with project limits. Applications include: Piling, Railway, Highway and Bridge Structure Monitoring.

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.

GENERAL:

Real Time Calendar/Clock for Date/Time print-out with results and 3 event timer per day for unattended operation of several weeks.

LCD Graphic Display for results and recall of graphs etc.

Alarm option to give Audio/ Visual warning if limit levels are exceeded.

Printer option.

Modem option with SMS text alerts.

Weather option to give wind speed/ direction, more details available on request.

User-friendly software - Features include: Reprinting Event; 1Min Pause; Quantity of full results printed before returning to Block Print-out when left unattended.

Separate or combined graphs, user selectable.

Battery/Mains operated.

Computer interface (RS232) and P.C. Software if required.

Supplied in a water-tight Peli Case.

OPTIONS:

VT1 single axis transducers with trigger option on selected channel.
Alternative transducer mounting plates/blocks.

INSTRUMENT CONFIGURATION:

Sound only, Vibration only or Combined Sound and Vibration (Vibration 3 or 6 channels).

ADVANCED OPTIONS - GPS

Peak Particle Velocity calculated in VDV's.

Audio replay.

Octave band filters for sound channel.

More options available on request.

SUPPLIED AS STANDARD WITH THE FOLLOWING:

Mains charger.

External battery socket.

Windows software.

Magus Electronics has a policy of continuous product development and reserves the right to vary the specifications without prior notice.

HHEAD01/LF1/QB2