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DATA-SHEET



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WHY BUY
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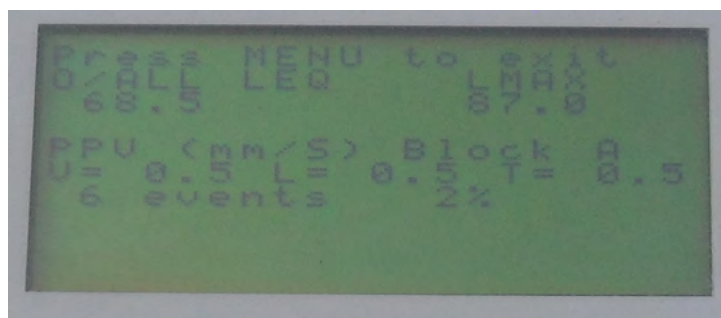
SITE COMPLIANCE MONITOR CM3



Designed by SureWave and manufactured by Magus Electronics, this fourth generation Vibrosound Analyser Model CM3 is the most simple and reliable way to monitor your sites for compliance for both Noise and Vibration legislations. Available in Simultaneous (Vibration & Noise Type 1 Leqs) or Vibration/Noise Only.

INTELLIGENCE WITH SIMPLICITY

Model CM3 allows full Remote Data Collection for unattended monitoring. Stay in charge with SMS text alerts on multiple user specified limits and on site alarms.



FEATURES

- Leq Type 1 Noise and Vibration Simultaneous
- Dual internal batteries and external power lead
- Alarm Option for site alerts (Audio + Visual)
- Up to 7 channels
- Unlimited Vibration cable lengths
- Remote data collection, automated at user periods
- Weather monitoring (Wind speed and Direction)
- Lae5 for compliance with the very latest standards
- Factory option of 32GB memory storage
- Many options to suit all applications



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

INPUT RANGE:

VIBRATION:

0.01 to 99.8mm/S Velocity. Resolution 0.01mm/S.

NOISE:

Dynamic Range: 60 dB (10dB below base 50dB above base) minimum.

Base Selectable: 20, 40, 60, 80, 100.

Resolution: 0.1dB accuracy 0.5dB Meeting Type 1 Precision grade .

Standard values:

Leq, Leq_{tabletime}, L_{max}, Leq₅, Percentiles: L10 L90. Factory option: L1

TRIGGER LEVEL (Impulse Mode):

USER SELECTABLE:

Vibration: 0.1 to 100mm/S Velocity.

Sound / AOP: dB Above Meter base (Linear) (ON or OFF)

CUT OFF DELAY (Impulse Mode):

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 (Impulse Mode):

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

EVENT LENGTH (Impulse Mode):

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.

MEMORY:

EVENT DATA RAM: 384KB. Option of 32GB.

Protected by a separate battery. User information store for 4 fields, 12 characters/field. All user-selected options have separate data retention for up to 10 years after each event save.

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 (External Option): User-selectable.

NONE: Only valid with PC or Flash Card Option.

BLOCK RESULTS:

VIBRATION: Displacement, Acceleration, Velocity, Frequency, Resultant Velocity.

NOISE: Air Overpressure (Leq in the Continuous Mode):

Leqs of Overall, Max 5 min, Leq(interval), Max 5 (interval),

L10, L90 Percentiles, LMAX. Additional user definable interval

for Leq, Max 5 min Leq, L10, L90 in Sound only mode.

SPL mode (from Calibration menu).

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

TRANSDUCERS:

VIBRATION: TA1 (3 accelerometers mounted triaxially) or VT1 (single accelerometer) as required. Cable lengths unlimited (POA)

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 01270-757900 for the latest specifications.

MODEM OPTION:

Giving remote data access and SMS text alerts on 5 alarm levels (2 Vibration, 3 Noise) and 'Real Time' remote readings fully user selectable download intervals.

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.

Printer Option.

2 level Audible and visual Alarm system warning if trigger level is exceeded in either mode of operation.

SMS text alerts with Modem option. Noise Alarms: 1 min Laeq alarm, Table Interval Time Laeq alarm and Period Laeq Alarm. 2 Vibration Alarms (PPV) all user selectable.

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.

Battery life (up to): light weight option 3 days, extended option 6 days. External battery connection with lead supplied for extended or permanent use (cycle external batteries). Internal battery can be changed by the user.

Computer interface (RS232) and Windows P.C. Software supplied as standard.

Supplied in a water-tight Peli Case, sealed to IP65.

Weight 10.5kg (4 Channel System with one Vibration Sensor and Microphone).

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).

SUPPLIED AS STANDARD WITH THE FOLLOWING:

Mains Charger + External battery connector and cable.

Windows Software (Windows 7 / XP,2000, ME,98SE,&98)

USB 1.1 (Type A to B) cable supplied.

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

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OUR COMMITMENT TO YOU

A wealth of knowledge and experience.

You can take advantage of expert advice to ensure you get the best, most appropriate and cost effective equipment for the job. We supply a wide variety of industries, so if there is another way to do the job or save you time and money we'll pass on the benefit of our experience for free.

Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and well-maintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

YOUR 5 WAY GUARANTEE

1 GUARANTEE SAME DAY DESPATCH

We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

2 OUR PRICE GUARANTEE

Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

For full details check our price-match guarantee online

3 TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

4 FRIENDLY, KNOWLEDGEABLE ADVICE GUARANTEED

Inlec are happy to provide you with free advice, from an unbeatable team of experienced, knowledgeable and friendly engineers and hire experts.

5 YOUR GUARANTEE OF THE BEST CUSTOMER SERVICE

Throughout your hire we will work hard to ensure you enjoy the very best in support and service from Inlec. We guarantee you won't find better service anywhere in the industry.

*subject to availability and conditions

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LAB NO. 0535



Nationwide Low Call 0333 6000 600

Online: www.inlec.com

Inlec UK Ellerbeck Way, Stokesley Business Park, Stokesley N Yorkshire TS9 5JZ United Kingdom



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