

FUSION Smart Sound & Vibration Analyser

Simply unique

01dB

ACOEM Group

01dB.com



FUSION is **01dB**'s multi-functional sound level meter, designed to increase productivity and deliver solutions. Simple to use, and as effective hand-held as it is on a tripod, this instrument is ideal in all measurement situations. Boasting powerful functionality for on-site analysis, **FUSION** is an innovation in sound level meters.

FUSION Smart Sound & Vibration Analyser

Technology to enhance productivity

YOUR NEW TEAM MEMBER

Featuring fully integrated components like built-in GPS and WiFi, **FUSION** has a compact, robust and ergonomic design perfectly suited to field work. Exceptional functionality and certified metrology ensure excellent reliability and accuracy. With the ability to operate autonomously for 24 hours, **FUSION** goes the distance.

ALWAYS CONNECTED

WiFi, 3G, ethernet… **FUSION** is the first hyper-connected sound level meter on the market, offering a new way to measure sound.

Whatever your project needs, **FUSION** has the answer:

- Download data via a WiFi network
- Administer remotely using 3G
- View real-time displays of your measurement
- Receive SMS notifications if pre-determined thresholds are exceeded
- Listen remotely.

Performance & simplicity

MULTI-TASKING

Noise consultants are called upon to measure and monitor a variety of noise and vibration issues. On any given day, they might evaluate the impact of noise on industrial sites, measure sound insulation between housing units or analyse induced vibrations on the pavement above underground trains. Rather than using different measuring instruments for each application, **FUSION** brings them all together in one compact unit. Switch from one measurement to another in the blink of an eye.





SMART AND POWERFUL

FUSION measures noise and vibrations succinctly and accurately. Its powerful functions are designed to optimise your operational efficiency, including:

- Continuous audio recording
- Innovative trigger threshold definition
- Advanced noise indicators
- Automatic calibrator detection
- Periodic electrical checks
- Remote setting changes and listening.

Your consulting expertise and FUSION – the perfect combination



WIRELESS VIBRATION

No more cables. FUSION is the first sound level meter to offer completely wireless vibration measurement. Connect FUSION to a powerful vibration sensor and it will record and store 3-axis vibrations in parallel, audio signals and all noise indicators.

Innovative, easy to operate and highly effective.

No time lost

THE 01dB "ECOSYSTEM"

All **01dB** products are designed to increase productivity and are based on shared operating principles. They work on the same data processing software platform and have similar accessories.

FUSION, **DUO**, **CUBE** and **ORION** use a single "ecosystem." Familiarity with one instrument will ensure you can master them all with no additional training necessary.

If **FUSION** is your first purchase from the **01dB** range, you will appreciate its simplicity of use, remote controllability and the power of its post-processing software.





01dB SOFTWARE

FUSION ensures that measurements are metrologically accurate, perfectly structured and sent to your data server on a regular basis for processing.

To meet a diverse range of project requirements, **01dB** offers a selection of software tools (**dBTRAIT**, **dBFA**, etc.)
with advanced functionality to visualise, exploit and analyse your data.

01dB software can be installed on multiple devices with no security key needed - processing your data seamlessly.



ACCESSORIES

01dB offers a complete range of accessories that complements FUSION and helps make it more efficient and easier to operate, including:

- **12/24-day battery for greater autonomy**
- **Weather-proof case**
- **Special grip**
- **Outdoor microphone**
- **2 or 6 sensor weather station interface**
- **Tapping machine**
- **Noise source.**



01dB AT YOUR SERVICE

Investing in FUSION not only means acquiring a high-performance sound level meter but also access to 01dB's exceptional Customer Support. A complete suite of services is included as standard with your instrument:

- **Hotline**
- **Training**
- **Calibration laboratory**
- **Repair centre**
- **Rental systems.**

A flat-rate annual service contract allows you to optimise your operating budget by selecting the services you really need. With the support of 01dB services, your instruments are always operational and guaranteed to function to your full satisfaction.

One tool to meet all your needs



METROLOGICAL
- IEC 61672 Class 1
- 40CE G.R.A.S. microphone
- Built-in preamplifier
- Self-check system

GENERALIST
- Environmental measurements
- Building acoustics
- Vibration measurements
- Health and safety measurements

ALL-IN-ONE
- Built-in WIFI
- Built-in 3G modem
- LAN interface
- Built-in GPS antenna

SMART
- Automatic calibrator detection
- Advanced triggers
- Advanced noise indicators
- Time synchronisation
- Multi-point synchronised encoding

INNOVATIVE
- Wireless 3-axis vibration signals measurement
- Simultaneous recording of noise signals
- Storage of multiple noise indicators at once

POWERFUL
- 24-hour autonomy
- High-capacity SD memory card (2 to 128 GB)
- Metrological audio recording
- Multiple processing software packages

CONNECTED
- Remote control
- Noise event SMS notifications
- Operational problem SMS notifications
- Connection to infrastructure WiFi network

EASY TO USE
- High-definition color display
- 3-key silent keyboard
- Rubber side grips
- Windscreen claw
- Handle fit to profile

ACCESSORIES



DSC01 all weather case



DMK01 outdoor microphone



Weather station

About ACOEM Group

Reduce your environmental impact

In today's fast-moving world, the environment is increasingly impacted. The ACOEM Group is committed to sustainable development and helping companies and public authorities limit their environmental impact by offering products and services that:

- Prevent and control air, noise and vibration pollution
- Increase the productivity and reliability of industrial machinery
- Contribute to the development of effective, robust & noiseless products
- Protect soldiers, sites and vehicles in military operations.

Across the world, ACOEM's 670 employees innovate in the measurement, analysis and control of all environmental parameters through the 01dB, ECOTECH, ONEPROD, FIXTURLASER, MEAX and METRAVIB brands.

For more information visit acoemgroup.com

Specifications subject to change without notice. March 2018