




CUBE Smart Noise Monitoring Terminal

Designed for monitoring!!



With **CUBE**, O1dB has extended its range of noise monitoring solutions. Designed to suit all types of applications, **CUBE** is the most versatile terminal on the market: mobile in a case, fixed in a cabinet, compatible with O1dB WebMonitoring solutions and suitable for easy integration with your applications. **CUBE** brings together the most innovative functions and is aimed at simplifying operations on every monitoring project. You can concentrate on data analysis while **CUBE** takes care of everything else.

CUBE Smart Noise Monitoring Terminal

The ultimate noise monitoring solution



A DESIGN FIT FOR PURPOSE

CUBE is a noise monitoring terminal that can fit into all forms of enclosure: all weather case, plastic or metal cabinet, etc. **CUBE** has been carefully designed to respond to all your needs. The cone typical of sound level meters has been eliminated to obtain a shape that can be easily integrated. Three ports are used to connect the antennas (Wi-Fi, 3G and GPS), each of which can be relocated outside the cabinet. The mounting profile can be attached to a DIN rail (typical for protection cabinets). Regardless of the situation, integrating the **CUBE** is quick and simple!

ALWAYS CONNECTED

Built-in 3G modem, Wi-Fi 802.11 b/g/n, Ethernet, ADSL... **CUBE** is totally connected and operates 24/7: automatic data publication, text message when the internal battery is low, communication of alarms to **O1dB WebMonitoring** services etc. In parallel, it responds to all your demands: changes to settings via a web-based interface, real-time listening to the measured noise, real-time display, etc. With **CUBE**, you are always closely connected to your monitoring projects.

→ Designed for monitoring

UNCOMPROMISED METROLOGY

The best possible measurement quality is a must for any noise monitoring project. **01dB** guarantees this prerequisite without compromise and offers a widely approved IEC 61672 class 1 solution. When associated with its **DMK01** outdoor microphone unit, **CUBE** may be used for measurements in the two reference directions 0° or 90° . Furthermore, electrical verification of the metrology chain allows measurement reliability to be checked periodically. Under all circumstances, **CUBE** collects data of undisputable metrological quality.



MONITORING: A PRIORITY

Ensuring pertinent monitoring also means detecting and providing information about the measurement. For this reason **CUBE** integrates the most advanced event-detection filter system, from the simplest to the most complex configuration. Each event generates one or more actions: event markers, signal recording (MP3 or WAV), notification by text messaging, triggering a warning light, etc. By associating **CUBE** with **01dB WebMonitoring** services, the measurements are available on a customizable web interface. **CUBE** makes sure that you have everything you need to ensure the success of your monitoring projects.

YOUR DATA AT ALL TIMES

Just one press on the ON/OFF button allows you to start **CUBE** and initiate measurements. A few minutes later, the data is published (PUSH Mode) on one or two data servers. It is then available to perform your analysis.

Need to change a setting? Connect using a computer or mobile device to access the remote configuration console. Adjustment of thresholds, additional settings, new data publication interval... Everything is within reach whether you are 10 m or 10,000 km away.

→ No time lost

THE 01dB "ECOSYSTEM"

CUBE, DUO, FUSION: three units, three applications but one single "ecosystem" focused on improving your productivity. Already familiar with **DUO** or **FUSION**? Becoming proficient with **CUBE** is just a formality. You will be operational on first contact and without any training. Your first purchase from the **01dB** range? You will appreciate its simplicity of use, its degree of remote controllability and the power of its processing software.



01dB SOFTWARE

With **CUBE**, measurements are metrological, perfectly structured and sent regularly to your data server. To cover each need, **01dB** proposes a range of software tools (**dBTRAIT**, **dBFA**, etc.) offering advanced functions to visualize, exploit and analyze your data. To simplify your work, you can install **01dB** software as many times as needed. Furthermore, there is no physical protection key to plug into your PC. With **01dB**, our software processes your data seamlessly.

ACCESSORIES

In addition to its technical performance, a noise monitoring terminal also demonstrates its qualities with multiple details that facilitate installation and operation.

01dB thus offers a complete range of accessories making **CUBE** even more efficient: batteries for more autonomy (up to 30 days), all weather case, solar panel, interface with weather station (two or six sensors), DIN-rail mounting system, mounting pole for external microphone unit, etc. These accessories are genuinely useful and will help to improve the quality and simplicity of your monitoring projects.

→ 01dB WebMonitoring

The **CUBE** Noise Monitoring Terminal has exceptional technical characteristics. Associated with **01dB** WebMonitoring services, **CUBE** becomes your simple and effective solution for deploying any noise monitoring project. You then have direct access to high-performance web services: secure cloud storage of data, online presentation of measurements on a customized web interface, periodic system verification and maintenance, real-time monitoring of alarms, etc. **CUBE** and **01dB** WebMonitoring help to make the most of your expertise: analysis of monitoring data.





At the service of monitoring



METROLOGY

- ✓ IEC 61672 class 1 (0/90°)
- ✓ DMK01 outdoor microphone unit
- ✓ All weather G.R.A.S. 40CD microphone
- ✓ Periodic self-check system based on charge injection

ALL-IN-ONE

- ✓ Built-in Wi-Fi
- ✓ Built-in 3G modem
- ✓ LAN interface
- ✓ Built-in GPS

SIMPLE TO INTEGRATE

- ✓ Compact
- ✓ Lightweight
- ✓ External antennas (GPS, Wi-Fi and 3G)
- ✓ DIN rail mounting

DEDICATED TO MONITORING

- ✓ Periodic transmission of data in push mode
- ✓ Interface with your software environment
- ✓ Compatible with 01dB WebMonitoring services
- ✓ Advanced triggers
- ✓ Text message notification of acoustic events
- ✓ Text message notification of operation problems



CONNECTED

- ✓ DHCP mode for connection to all types of modem
- ✓ Connection to Wi-Fi network
- ✓ Remote administration via a web interface
- ✓ Remote listening to signal

SMART

- ✓ Advanced acoustic indicators
- ✓ Indicators for aircraft noise
- ✓ Raw signal recording (metrological WAV or compressed MP3)
- ✓ Time synchronization
- ✓ Multi-point synchronized encoding

HIGH PERFORMANCE

- ✓ 24-hour backup battery
- ✓ Adaptable to all external batteries
- ✓ High-capacity SD memory card (2 to 128 GB)
- ✓ Data processing with dBTRAIT software

ACCESSORIES



DSC01 all weather case



Weather station



Solar panel

ACOEM

Smart monitoring, diagnosis & solutions

In today's complex and increasingly fast-moving world, it is essential to keep risks under control. ACOEM helps customers in the industrial, environmental and defence sectors make the right decisions and take the right actions:

- to ensure the productivity and reliability of industrial machines
- to prevent noise and vibration pollution
- to protect personnel, sites and vehicles in military theaters of operation
- to contribute to the development of effective, robust & noiseless products

All around the world, ACOEM's 450 employees are at the forefront of innovation in monitoring, maintenance and engineering through 01dB, ONEPROD, FIXTURLASER and METRAVIB.

For more information, visit our website at acoemgroup.com



200 Chemin des Ormeaux
69578 LIMONEST - FRANCE
Tel. + 33 (0)4 72 52 48 00

acoemgroup.com

Asia
Tel. + 66 (2) 7112 293 - Fax: + 66 (2) 7112 293

South America
Tel. + 55 (11) 5089 6460 - Fax: + 55 (11) 5089 6454
