



DUO

Smart Noise Monitor

01dB

A
AREVA



Smart Noise Monitor Just what you've been waiting for

DUO

Rapid instrument deployment

Free up more time for analysis and reporting

DUO installation is quick and easy. Its sleek design and small form factor allows for safe and discreet deployment. With DUO's ground breaking "all in one" design you no longer need multiple cables between the measuring instruments, microphone, batteries and modem.

You are not alone with DUO

Wirelessly measure the noise source and receiver simultaneously

With DUO Smart Noise Monitor, you are playing a duet: you are no longer alone in the field. DUO enables better understanding of the noise environment with simultaneous parallel coding of two measurement points. All measurement data is automatically recorded so nothing is left to chance.

Two DUO allow automatic coding on one channel applied on the other channel using dBTrait. Moreover post processing on synchronized levels difference will be very powerful to highlight noise from the source under concern.

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Control your measurements

Access to your measurement points, from near or far

With DUO and dBDUO integrated web client, you can access settings, stored data, real-time visual display of sound levels with:

» *a built-in screen to start and control a measurement in the field*

» *an internet connected device (Wi-Fi, 3G) for overall control of the site, from your office or... from the coffee-shop around the corner.*

Measurements are accessible at any time and from anywhere.

DUO The best of both worlds is within your reach

Sound level meter and monitoring station

DUO introduces the “Smart Noise Monitor”, the new generation of Environmental noise measuring instruments, devoted to:

- » classical hand-held sound level meter measurements using the built-in keyboard and screen or a wireless remote control (Wi-Fi, 3G)
- » short, medium or long-term stand-alone measurements, the operator having full remote control of the instrument.

Fully weatherproof

DUO is protected and safe, come rain (or snow) and shine

Its housing has been designed for outdoor use under all weather conditions. Its integral protection makes DUO discreet in the measurement environment. Developed exclusively for DUO, its all-weather microphone/cone set is manufactured by G.R.A.S., the world-renowned company specialised in precision noise transducers.



Operating battery lifetime and memory

You can take the week-end off, DUO won't stop measuring

With long battery lifetime, full remote control of the entire instrument, and a high memory capacity, DUO opens up a new dimension in noise measurement.



Assured metrology and data security

Relax, DUO reaches new heights in reliability

Programmable in-situ automatic electrical checks and precision class components guarantee metrological reliability. With 0° and 90° incidence corrections it gives flexibility whatever you measure. To secure your instrument DUO has a unique anti-theft system.



DUO Everywhere at once

Multi connectivity

DUO includes a Wi-Fi module for short distance connection and a 3G modem to access the instrument from anywhere in the world. Your measurements have never been so easy to control.

Multi single-channel

Duo opens up new diagnosis capabilities: it is now possible, for instance, to analyse precisely and simultaneously noise pollution and disturbing sources in multiple positions. Its accurate synchronisation of clock and GPS positioning of the measurements allow using several DUO at the same time.

Web navigation

DUO is accessible through a comprehensive Web client: DUO allows remote system configuration and measurements settings, calibration and electrical checks with associated historical data. Sound levels are available in real time wherever you are and with no software installation required.



About 01dB

01dB is a registered trademark of 01dB-Metravib, a subsidiary of AREVA. 01dB-Metravib has built its know-how on Noise and Vibration technologies, and services offered to its customers. The company has been developing for 40 years through innovations directed towards the environment, industry and defence, with an international presence, headquarters in France and regional agencies.

Fully designed and made in France



DUO At a glance



INTEGRAL PROTECTION
Innovation by 01dB:
protection and discretion
for your DUO.



ALL-WEATHER MICROPHONE
A G.R.A.S. innovation
especially designed for
01dB.



NOISE CONE
A G.R.A.S. innovation
for 01dB: 0° and 90°
incidences compliant
with IEC 61672 standard.
Bird spike.



METROLOGY
Automated checks of the
entire instrument
(5 frequencies, 2 levels)
and automatic calibration
procedure.



BUILT-IN SCREEN
High-contrast colour
screen. Simple interface
for classical use.



Wi-Fi
Ad-hoc Wi-Fi
connection to control
your instruments
simultaneously.



3G
Built-in modem. Long
distance control. Requires
3G data subscription.



REMOTE CONTROL
Wireless remote
access to all functions
of DUO.



GPS
Built-in GPS for
georeferenced
measurements.



SYNCHRONIZATION
Built-in GPS for time
synchronization of
all DUO units in your
measurement campaigns.



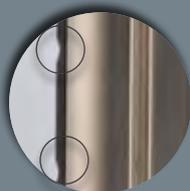
ALL IN ONE
Ergonomics made easy
by the all-in-one concept.
Forget the cables!



MAGNET
Mounting plate to attach
your remote control
on DUO.



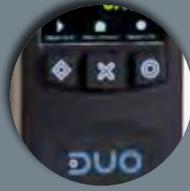
METALLIC HOUSING
Aluminium profile treated
against corrosion to make
your DUO last longer.



SIDE GRIP
Comfortable and secure
handling of your DUO
with 2 side grips made of
silicone elastomer.



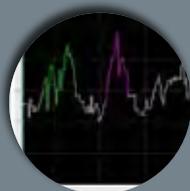
ANTI-THEFT SYSTEM
Lock / cable set to secure
your DUO.



THE 01dB TOUCH
3 keys for easy control
at your fingertips.



CODING LOCATION
An additional DUO
for automatic coding of
the noise source.



LEVELS DIFFERENCE
With dBTRAIT software,
the level difference method
between channels
is used to highlight sources
in question.



MEMORY
2 GB SD card,
upgradeable to
32 GB (10 days of 1/3
octave spectra with
metrological audio 20%
of the time!).



OPERATING LIFETIME
More than 60 hours
in nominal mode
(multispectra, Wi-Fi, 3G).



AREVA supplies solutions for carbon-free power generation. Its expertise and know-how in this field are setting the standard, and its responsible development is anchored in a process of continuous improvement.

As the global nuclear industry leader, AREVA's unique integrated offer to utilities covers every stage of the fuel cycle, nuclear reactor design and construction, and related services. The group is also expanding considerably in renewable energies (wind, solar, bioenergies, hydrogen and storage) to be one of the top three in this sector worldwide in 2012.

Every day, AREVA's 48,000 employees cultivate the synergies between these two major carbon-free offers, helping to supply safer, cleaner and more economical energy to the greatest number of people.

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