



New regulations include requirements relative to airborne noise insulation, impact noise and noise generated by technical equipment from the design stage. The verification of building sound quality requires precision instruments perfectly suited to the requirements of field measurements.

**01dB®** offers the “modular” technical solution that fully meets all issues relative to building noise measurements: sound level meter **Blue Solo**, combined with **noise sources** and **dBbati software**.

**Blue Solo**,  
designed based on good engineering practice ...

### Blue Solo sound level meter

The latest addition to the family of **01dB®** sound level meters, **Blue Solo** presents all assets required for building acoustic measurements.

- ▶ Measurement of sound levels and octave (1/1) or third octave (1/3) spectra
- ▶ Measurement of reverberation time T60
- ▶ Real-time signal acquisition
- ▶ Large storage memory (1GB SDcard)
- ▶ Module dedicated to building acoustics

### dBbati software

**dBbati** is a software designed for noise measurement in buildings. It is compliant with all existing international standards.

Combined with **Blue Solo**, this software allows to process and analyze measurements very easily and according to statutory requirements.

- ▶ Sound insulation
- ▶ Room criteria
- ▶ Acquisition and real-time processing directly on the PC

### Noise sources

**01dB®** offers different noise sources (tapping machines, amplified and high-power stand-alone directional and omni-directional noise sources) to perform all measurements recommended by regulations.

- ▶ Airborne noise insulation
- ▶ Room acoustics
- ▶ Impact noise insulation
- ▶ Spatial decay

### Accessories







- ▶ The Autopole® pole can be used to perform façade insulation measurements very safely. The microphone is placed 2m in front of the façade.

### Enhance your know-how

- ▶ Noise measurements
- ▶ Building acoustics
- ▶ Room acoustics
- ▶ Façade insulation



# Technical specifications for Blue Solo / dBbati

Features	Blue Solo
<b>Standards</b>	IEC 61672-1 (2002) / NF EN 60651 (2000) / NF EN 60804 (2000) / ANSI 1.11 / ANSI 1.4 IEC 1260 (1995) / CEM EN 50081-1 and 2 / EN 50082-1 and 2
<b>Metrology</b>	Single dynamic range: 20-137 dB(A) / class 1 or 30-137 dB(A) / Class 2 Leq (from 20 ms to 10 s), Lp, Lpmin, Lpmax (S, F, I), Lpk (C, Z), A, B, C and Z weightings Real-time 20 ms 1/1 and 1/3 octave multispectra (12.5 Hz – 20 kHz)
<b>Building Module</b>	Preprogrammed setups: emission / reception / background noise / T60 / equipment noise Built-in generators: pink noise / white noise / sine (variable gain) Source management: stable / remote control / impulse (on trigger) Selection of room type: bedroom, kitchen, living room, bathroom, etc.
<b>Pocket PC Remote Control Module</b> 	Bluetooth wireless communication, class 1 Live display and data coding on color touch-screen Pocket PC (LAeq, LAfp, 1/3) Written and voice comments (synchronized with measurement file)
<b>USBati Transfert</b> 	Acquisition front-end mode / File transfer mode
<b>General performances</b>	Upgrade to other modules: Audio  , Memory  , Trigger  , Environment  Typical operating life: 24 hr (standard mode) / 16 hr (remote control mode) Parallel measurement and time history of all indicators Language: French, English, Spanish, German, Italian, Dutch, Portuguese, Romanian



## dBbati

<b>Standards and indices</b>	Airborne noise insulation: Dn,T / DnAT / Dn,w / Dn,T,w (NF S 31-057, NF EN 10052, ISO 140, ISO 717-1) Transmission loss indices: R / R' / Rw / R'w (according to ISO 140) Impact noise insulation: L'n / L'nT / LnAT / Ln,w / L'n,w / L'nT,w (ISO 140 and ISO 717-2) Equipment noise: standardized level LeT (according to NF S 31-057 and NF EN 10052) Absorption coefficient: $\alpha_S$ (ISO 354) Reverberation time: T60 (ISO 3382)
<b>Room criteria (option)</b>	STI, RASTI / EDT, Clarity index C80, Definition D50, ST1 / Impulse method
<b>General performances</b>	Display of customizable graphics and tables / User-defined analysis and calculation managers Automation of measurements / Recomposition, addition, subtraction and average operators Result printing, advanced copy / paste and export functions Automatic reports compliant with NF, EN, ASTM, JIS and ISO standards (Word format)



## Noise sources

<b>Airborne noise</b>	<b>GDB-S</b> Unidirectional Pink noise generator Sound levels: Built-in pink noise generator 103dB(A)/1m Solo's pink noise generator 106dB(A)/1m Operating life: 10h at 20°C / Weight: 15 kg HF remote control	<b>OMNI12</b> Omnidirectional (12 loudspeakers) Pink and white noise generator Sound levels: Built-in pink noise generator 99 dB(A)/1m Solo's pink noise generator 100 dB(A)/1m Operating life: 1h30 at 20°C / Weight: 37 kg HF remote control 480 W amplifier
<b>Impact noise</b>	<b>MAC01: Standardized tapping machine</b> 5 x 500g hammers / Frequency 10 Hz / Total mass: 19.5 kg / HF remote control / Battery life: 2h	



## Accessories

Autopole® for façade insulation with 2m pole / tripods Window cable NPF95 / extension cable for microphone
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