



CAMPBELL ASSOCIATES
SOUND, VIBRATION & AIR SOLUTIONS

SOUNDEXPERT® CLASS 1 SOUND LEVEL METER



KEY PRODUCT SPECIFICATIONS



CLASS 1 PRECISION
Professional-Grade Measurement



TOUCHSCREEN CONTROL
Clear, Intuitive Operation



LONG-LIFE BATTERY
Up to 40 Hours



WIRELESS CHARGING
Qi Wireless & USB-C



OCTAVE ANALYSIS
Optional 1/1 & 1/3 Octave Bands



AUDIO RECORDING
Optional Triggered Event Capture

Built for Professional Acoustic Measurement.
Class 1 precision. Simple field operation.

The SoundExpert® 821 is a portable Class 1 sound level meter designed for accurate acoustic measurement across environmental, industrial and occupational applications.

Its intuitive touchscreen, lightweight design and advanced analysis tools make it easy to capture, review and report reliable noise data directly in the field.

DESIGNED FOR PROFESSIONAL FIELD MEASUREMENT

Suitable for environmental monitoring, industrial surveys, workplace assessments and noise nuisance investigations where accurate acoustic data and clear reporting are essential.

The SoundExpert® 821 combines Class 1 precision with intuitive touchscreen control, lightweight portability and flexible analysis tools for efficient measurement in the field.



TECHNICAL SPECIFICATIONS



 **17–140 dB**
Dynamic Range

 **FAST, SLOW & IMPULSE**
Time Weightings

 **100 ms–1 h**
Measurement Intervals

 **UP TO 256 GB**
MicroSD Storage

 **A, C & Z**
Frequency Weightings

 **383 g**
Unit Weight

POWER & OPERATION

Designed for extended field use, simple control and flexible charging.

- **Up to 40 hours** of battery life
- **Qi wireless, USB-C or external 12V** power
- **Lightweight 383 g** handheld design
- **High-resolution touchscreen** control
- **Single-handed operation** in the field
- **Back-erase function** for quick corrections

MEASUREMENT & ANALYSIS

Advanced tools provide accurate data and detailed acoustic insight.

- **IEC 61672-1:2013 Class 1** compliance
- **17–140 dB** dynamic range
- **Leq, Lmax, Lmin, Lpeak, Ln, LDN and LDEN**
- **A, C and Z** frequency weightings
- **Fast, Slow and Impulse** time weightings
- **Optional 1/1 and 1/3 octave** band analysis
- **Percentiles and markers** for detailed review

SOFTWARE & CONNECTIVITY

Manage measurements, review data and streamline reporting across mobile and desktop tools.

- **Atlas™ mobile app** for Bluetooth control
- **Bluetooth and WiFi** connectivity
- **Measurement setup and calibration checks**
- **G4 Utility software** for desktop analysis
- **Graphs, spreadsheets and heat maps**
- **Synchronised audio playback** with recording option
- **Report export** for professional documentation

APPLICATIONS

Environmental monitoring
Noise nuisance
Occupational noise
Industrial surveys
Room acoustics



ENVIRONMENTAL KIT

SoundExpert® 821 Environmental Kit is a comprehensive solution designed for precise environmental acoustic monitoring.

It combines the advanced capabilities of the SoundExpert Model 821ENV sound level meter with robust outdoor accessories to facilitate accurate and reliable acoustic assessments in various environmental conditions.



CAMPBELL ASSOCIATES
SOUND, VIBRATION & AIR SOLUTIONS

www.campbell-associates.co.uk