

## EM2030 SOUND LEVEL MONITOR

# EM2030



# SONITUS SYSTEMS

ENABLING BETTER ENVIRONMENTS FOR PEOPLE TO LIVE AND WORK

The EM2030 is a rugged, fully automated, remote sound level monitor. Designed for simple operation and reliability in tough environments. Ideal for construction, industrial and environmental projects.

Just power up and start measuring. The EM2030 Sound Level Monitor provides complete automation of measurement, analysis and reporting. Simple installation allows quick set up on site and the advanced measurement options can capture sound level readings for a range of applications.



## HIGHLIGHTS



Automated operation with online analysis and extended measurement range



Mains, battery and solar power options with low power mode



Remote online reporting through the Sonitus Cloud. Check compliance with site limits, from anywhere at anytime



Ready to deploy on any site with minimum maintenance needed



All real time data is automatically pushed to the Sonitus Cloud platform, hosted on secure servers in Ireland. Flexible export options using API or FTP are available



Rugged design with consistent performance in all (weather) conditions



Audio capture function to record sound clips and automatically identify noise sources

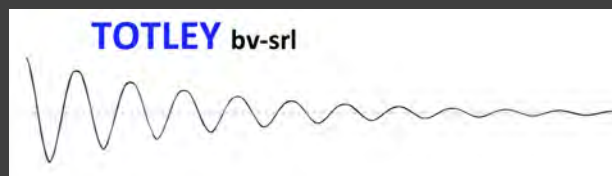


Frequency analysis tools for detailed sound source investigation

[www.sonitussystems.com](http://www.sonitussystems.com)

**NOISE AND AIR QUALITY MONITORING INSTRUMENTATION**

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Dynamic traceable calibration of sound and vibration instrumentation and transducers, Consulting, Management, Engineering and Total Solutions provider in Electronic Instrumentation

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# SPECIFICATIONS

## SOUND LEVEL MANAGEMENT

ACCURACY	IEC 61672 Class 1
DYNAMIC RANGE	17 to 121 dB(A)
FREQUENCY RANGE	20Hz to 20kHz
FREQUENCY WEIGHTING	A and C weighting
PARAMETERS	LEQ, L05, L10, L50, L90, L95, LMAX

## LOGGING

MEASUREMENT PERIOD	1, 5, 10, 15 or 30 minutes
DATA STORAGE	5 years (5 minute logging)
PROCEDURE	Automatic measurement and logging

## MICROPHONE

SENSITIVITY	50mV/Pa
CONNECTION	BNC to BNC (3m cable as standard)
POWER SUPPLY	Constant current ICP, 18V, 4mA

## POWER REQUIREMENTS

MAIN POWER SUPPLY	110V - 240V AC
BATTERY	8 - 16V DC
CONSUMPTION	2.4W

## COMMUNICATIONS

WI-FI	For user interface
4G MODEM & SIM	Supplied inside each monitor
USER INTERFACE	Accessed using a standard web browser

## OPTIONAL FEATURES

### Audio Capture

For applications where sound source identification is required, the EM2030 can automatically capture audio clips when the sound level exceeds a trigger level. The audio capture trigger level (LAeq) is set through the user interface or in the Sonitus Cloud. A short audio sample is then captured any time the trigger level is exceeded. Audio clips are automatically uploaded to the cloud for listening back or download. The Sonitus Cloud also includes artificial intelligence tools to automatically identify and label audio recordings, saving time and effort for noise source identification.

### Frequency Analysis

Detailed acoustic analysis can be performed with the 1/1 octave or 1/3 octave options.

### Microphone Heater

For colder climates we recommend the use of a microphone heater during winter months. The heater fits over the 1/2" microphone and sits neatly inside the windshield. The thermostatically controlled heater helps to keep the microphone diaphragm free from moisture and ensures reliable measurement in all conditions.

### Maintenance and Calibration

Calibration to IEC 61672 Part 3 is recommended every 2 years. Calibration services can be provided by a network of approved partners.

