

EM2030 SOUND LEVEL MONITOR

EM2030



SONITUS SYSTEMS

ENABLING BETTER ENVIRONMENTS FOR PEOPLE TO LIVE AND WORK

The EM2030 is an automated, remote sound level monitoring system. Designed for long-term, simple operation and built for reliability. It is ideal for construction jobs, industrial sites, smart city projects and environmental monitoring.

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 measurement, upload and analysis with reports straight to your inbox



Frequency analysis tools for detailed sound source investigation



Online reporting through the Sonitus Cloud with email and text alerts. Check compliance with limits, from anywhere at anytime



Rugged design with consistent performance in a range of weather conditions



All real time data is automatically pushed to the Sonitus Cloud platform, hosted on secure servers. Export options using API or FTP are available for integration with other systems



Mains, battery and solar power options with low power mode for long term monitoring



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



Ready to deploy with minimum effort on site for set up and maintenance

NOISE AND AIR QUALITY MONITORING INSTRUMENTATION

SPECIFICATIONS

SOUND LEVEL MEASUREMENT

| | |
|---------------------|---------------------------------------|
| ACCURACY | ANSI S1.4 Type 1 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 (10ft cable as standard) |
| MICROPHONE POWER SUPPLY | Constant current ICP, 18V, 4mA |

POWER REQUIREMENTS

| | |
|--------------------|----------------|
| MAINS 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.

