

## EMS011 WITH LD CLOUD CONNECT **INSTANT INSIGHTS ON NOISE**

# ENVIRONMENTAL MONITORING SYSTEM

- Continuous noise monitoring with email and text alerts
- Easy to read, cloud-based maps and reports
- Ready to deploy with minimum effort on site
- Low maintenance and simple calibration
- Rugged design with consistent performance in a range of weather conditions
- Flexible power options, including line, battery, or solar
- Options for dust and vibration monitoring

## TYPICAL APPLICATIONS

Environmental Monitoring and Compliance for

- Construction Sites
- Industrial Sites
- Smart City Initiatives
- Quarries
- Transportation

Access and connect to your work site noise monitoring stations from anywhere 24/7. Designed for applications that require accuracy, reliability, and simple operation, the Environmental Monitoring System Model EMS011 with LD Cloud Connect helps ensure compliance with regulations by providing a full suite of tools that deliver actionable insights.

Powered by the Larson Davis SoundExpert Model 821ENV, the system offers automated compliance checks, email and text alerts when limits are exceeded, calendar views, and secure, cloud-based maps of noise levels. It provides a customizable interface to securely share clear, relevant information with selected project partners.

The SoundExpert meter can be removed from the EMS011 housing, allowing it to be used independently for portable measurements. This makes it suitable for on-the-go acoustic assessments or spot-checks with Class 1 accuracy, enhancing both flexibility and cost-effectiveness.

## FULLY CONFIGURABLE

EMS011 is a versatile component of a customizable environmental monitoring system that allows you to mix and match instruments for noise, dust, and vibration, creating a system tailored to meet your specific compliance and monitoring needs. By adding optional instruments EMS-DUST and EMS-ROCK, you can easily integrate dust and vibration sensors together with EMS011 into a single system. All configurations are compatible with LD Cloud Connect, enabling data viewing, exceedance alerts, and management through a single interface.

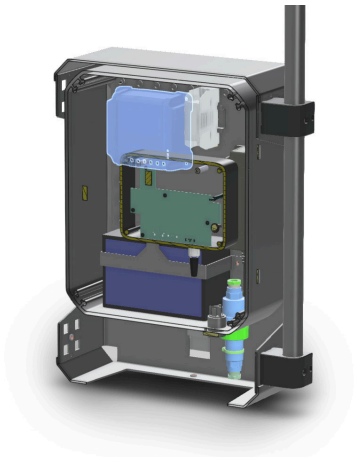
**Preliminary**

# OPTIONAL FEATURES INCLUDE

- Dust Sensor: simultaneously measures PM10, PM4, PM2.5 and PM1, (MCERTS certified for PM10 and PM2.5)
- Vibration Monitor: Wireless vibration monitor with internal geophone velocity sensor, measurement range  $\pm 5.3$  in/s
- Audio Capture: for applications where sound source identification is required, automatically capture audio clips when the sound level exceeds a trigger level
- Frequency Analysis: 1/1 or 1/3 octave band options
- Microphone Heater: fits over the microphone to ensure reliable measurement in all conditions; recommended for cold climates



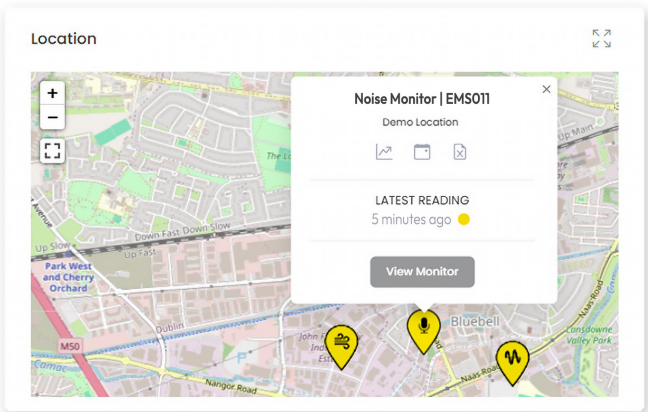
Inside EMS011



EMS011 3D Rendering

SPECIFICATIONS	
Sound Level Management	
Dynamic Range	17 - 140 dB(A)
Frequency Range	20 Hz to 20 kHz
Frequency Weighting	A and C weighting
Parameters	LEQ, L01, L05, L10, L50, L90, L95, L99, LMIN, and, LMAX
Logging	
Measurement Period	1, 5, 10, 15 and 30 minute logging intervals
Data Storage	5 years (5 minute logging)
Procedure	Automatic measurement and logging
Microphone	
Sensitivity	50 mV/Pa
Connection	BNC to BNC (3m cable as standard)
Power Supply	Constant current ICP, 18 V, 4 mA
Power Requirements	
Power Solutions	Main, Battery, or Solar
Main Power Supply	110 V - 240 V DC
Battery	8 - 16 V DC
Consumption	2.4 W
Communications	
Wi-Fi	For user interface
4G Modem and SIM	Supplied inside each monitor
User Interface	Accessed using a standard web browser
Reporting Frequency	5 or 15 minutes

The included Sound Level Meter can be removed from the system and used standalone. For full Sound Level Meter specs see the SoundExpert Model 821ENV datasheet.



Map-based noise levels in LD Cloud Connect



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