

Total Lightning System



Key Applications

- Government agencies
- Military agencies
- Meteorological institutions
- Research organizations



ASK ABOUT: LIGHTNING SENSOR

The AEM Lightning Sensor detects 95% of CG strikes and more than 85% of IC lightning flashes with location accuracy < 100 meters.

Guard against severe weather threats with a precise, secure lightning detection network

In an instant, lightning can threaten lives, disrupt vital operations, and compromise critical infrastructure. For many government, meteorological, and research agencies the integrity and accuracy of lightning data are crucial to national security and resilience against severe weather. For over 13 years, AEM's Total Lightning Systems have empowered leading global organizations to reduce operational risks and protect lives. Partner with AEM to deploy a standalone total lightning network that integrates advanced sensing technologies and superior data processing methodologies to improve the accuracy, reliability, and security of weather information across your region, country, or any area of interest.



Innovative detection technology



Sensor and performance management



Total lightning data



Real-time insights and alerting

BENEFITS



Maintain complete control of your sensor network and total lightning data in a secure, closed system.



Minimize risks to national security, vital operations, and critical infrastructure that arise from false or inaccurate weather information.

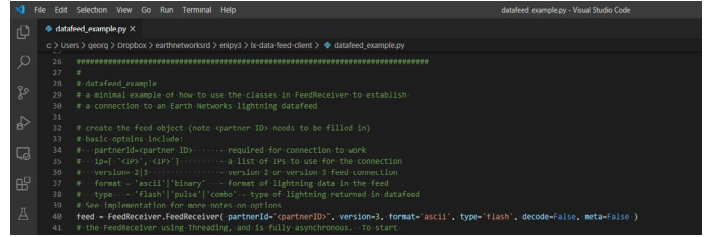


Quickly and easily integrate high-quality lightning data in the desired format into your forecasts, business tools, and analytics.

Comprehensive sensing, data, and software solution

AEM's Total Lightning System offers a complete portfolio of lightning data, sensors, and software to meet your specific needs and improve decision-making. We connect you with more accurate and reliable lightning information so you can create better forecasts, maximize business continuity, and provide a high standard for safety and security.

Key Features

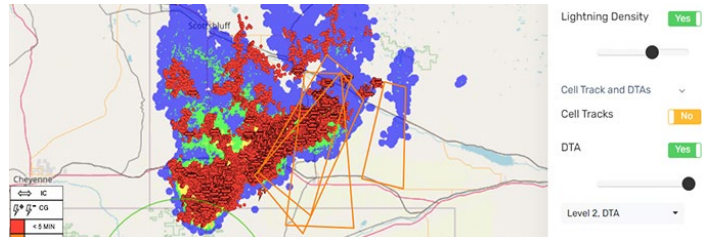
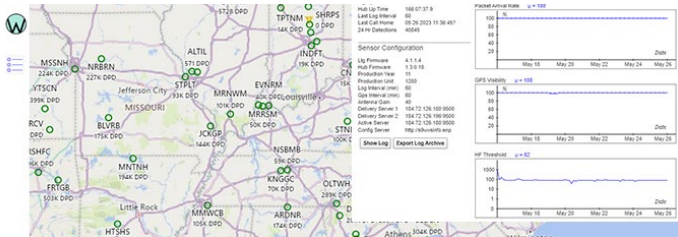


INNOVATIVE SENSING TECHNOLOGY

- Industry-leading Lightning Sensor offers exceptional detection efficiency and location accuracy.
- Premium Lightning Mapping Array (LMA) sensor maps lightning in 3D for highest precision.

LIGHTNING DATA FEED

- Real-time in-cloud (IC) and cloud-to-ground (CG) lightning data feed with detailed lightning strike attributes delivered via multiple convenient options (JSON, UALF, CSV).
- Quickly and easily integrate data from your network into your apps, business tools, and analytics.



NETWORK MANAGER

- Easily manage and monitor your entire network from anywhere using one application.
- View and change sensor configurations, including antenna sensitivity and data collection protocol.
- Monitor performance and health for each sensor, including GPS tracking, environmental noise, size and latency of data packets sent to the central server, amount of lightning the sensor is contributing to, and more.

AEM ELEMENTS™ 360 DECISION SUPPORT APPLICATION

- Gather and view critical insights based on real-time and historical data from your network.
- Configure alerts to notify personnel via email or text when lightning threatens specific assets or locations of interest.
- Layer in proxy radar with lightning density to obtain rainfall estimates in remote areas.
- Receive Dangerous Thunderstorm Alerts (DTAs) based on a 45-minute nowcast of lightning threats.

Let's start a conversation

Reach out to us today at info@aem.eco to explore how our Total Lightning System can help you improve the accuracy, reliability, and security of lightning data.