

Total Lightning Network



“Earth Networks lightning technology and real-time data services have enabled us to rapidly expand and enhance the Australia Total Lightning Network (ATLN). Earth Networks has continued to evolve and enhance both hardware and software to enable us to provide a comprehensive solution to organizations and business right across Australia. This service is now trusted by both large government and commercial enterprises.





— **Martin Palmer**
Managing Director, Weatherzone

Be ready before lightning strikes

Earth Networks Total Lightning Network® delivers the most reliable and precise lightning detection in the world, so you can make better decisions, protect property, minimize downtime, and safeguard lives when and where it matters most.

<100 meters	>95 percent	>95 percent	100+ countries
Exceptional location accuracy	Global detection efficiency	Total lightning classification accuracy	Reliable, complete data anywhere you operate

BENEFITS

-  **Precise Data in Moments that Matter:** Innovative technology and machine learning models deliver more precise lightning data to inform critical decisions and safeguard lives when it matters most.
-  **Robust Coverage Where It Counts:** Expansive, proprietary network ensures exceptional location accuracy and detection efficiency almost anywhere you operate in over 100 countries worldwide.
-  **Intelligence to Minimize Financial Risk:** Powerful data helps you know when lightning threatens to impact operations so you can minimize disruptions, adjust processes, optimize emergency response time, and minimize financial risk.
-  **Immediate, Reliable Information:** Innovative platform ensures uninterrupted and timely access to current or historical data when you need it, with maximum up-time.



ASK ABOUT OUR POWERFUL LIGHTNING SENSOR

Combine our innovative Lightning Sensor technology with advanced analytics and visualization capabilities to precisely monitor hyper-local lightning intelligence as it happens.



Why AEM Total Lightning Detection

Be ready before lightning strikes with the most reliable and precise lightning network in the world.



Exceptional location accuracy and detection efficiency

- Sophisticated algorithms deliver superior location accuracy of **<100m** and detection efficiency of **>95%**
- Advanced machine learning models filter out inaccurate location data to maintain low false alarm rate



Superior lightning classification

- Most accurate global in-cloud and cloud-to-ground total lightning detection with classification accuracy of **>95%**



Expansive global coverage

- Dense sensor deployment with **1800+ sensors** in **100+ countries** worldwide provides comprehensive, consistent data anywhere global companies operate



Maximum up-time and immediate access

- Efficient and reliable technology platform with maximum up-time of **99.9%** and fast data delivery in under 15 seconds



Flexible delivery options

- Access lightning data without delay via various feeds and file types to be integrated into your systems for analysis
- Directly accessible within our suite of weather monitoring and alerting solutions to track severe weather in real-time



Complete, Insightful Data—Either Real-time or Historical

- Inform better decision making and emergency response planning when dangerous weather threatens
- Support more accurate predictive modeling and severe weather forecasting in meteorological applications

Key applications:

- Accurately detect lightning and severe weather to communicate timely alerts to people on your site and maximize safety
- Access critical, real-time weather information required to guide decisions, plan for business disruptions, and minimize costly downtime
- Quickly detect and verify lightning strikes to pinpoint fire ignitions or damage to assets and know where to focus emergency response
- Use precise, high-quality data to enhance and improve meteorological applications and research for more precise modeling and weather forecasting



**ASK ABOUT:
TRACK SEVERE WEATHER
WITH AEM ELEMENTS™ 360**

AEM Elements 360 is the the ultimate collaborative decision support application to view animated radar and real-time lightning strikes, track storm estimated time of arrival, and trigger location-based alerts.

To find out more about all of our technologies, visit aem.eco or contact us at info@aem.eco