Vaisala Thunderstorm Manager for aviation
Trusted lightning tracking and warning solution to keep workers safe and minimize downtime

When thunderstorms are nearby, keeping ramp agents and other outdoor ground crews safe, while minimizing costly operational downtime and reducing the impact to on-time departures, is key for airports around the globe. Vaisala Thunderstorm Manager provides a reliable, comprehensive and streamlined way to track approaching thunderstorms and allow airports to manage the threat of lightning.

Thunderstorm Manager produces alerts when it is time to stop outdoor operations and move to shelter and notifies as soon as it is safe to resume.

It is an easy-to-use and clearly understood web-based application that allows you to track approaching storms in real time, enabling faster, safer decisions.

Thunderstorm Manager can be configured to integrate with your operational safety procedures. It can even automatically trigger flashing beacons and horns to clearly and quickly alert outdoor workers of danger.

Its global coverage enables airport authorities and airlines to implement a standardized lightning management solution across airports in any location — nationally, on any island, or in any country.

Key benefits

Trusted industry partner
Thunderstorm Manager is built on the most trusted lightning detection networks in the world, the GLD360 and the NLDN, and relied upon by U.S. federal agencies, national meteorological agencies, large power utilities companies, and the world's leading airlines. Vaisala delivers the detection precision and speed required to ensure that workers are safe and costly operational downtime is minimized.

Easy integration with AviMet complete weather management
Thunderstorm Manager easily integrates with AviMet, Vaisala's industry-leading complete aviation weather management system to promote safe operations and controlled costs in any type of weather.

Lightning coverage when it matters most
Standardization across all user facilities results in the highest quality lightning data anywhere in the world, which is available more than 99.99% of the time.

Easy access and automated alerts from any location
Based in the cloud, Thunderstorm Manager can be accessed via desktop or mobile device using any modern web browser from any location with internet access. Automated alerts can be sent by email, HTTPS, and SMS to multiple email addresses and phone numbers, and even trigger flashing beacons and horns to warn of a lightning threat.

Quality you can count on
Vaisala's commitment to the highest quality and most accurate lightning data supports aviation partners who prioritize quality and safety, while still maintaining the most efficient operations possible.

Thunderstorm Manager at a glance

Applications

- The aviation industry is under continuous pressure to ensure on-time departures while keeping operational costs to a minimum. Thunderstorm Manager maximizes worker safety, while minimizing operational downtime.

- Reliable, accurate lightning detection enables real-time visualization of lightning events for airport safety personnel to make faster, safer determinations on when to stop and then safely resume operations.

- The Lightning Threat Zone capability improves user understanding of a thunderstorm that may be approaching, moving away, or is currently overhead and ringing lightning alarms.

- Real-time alerts provide situational awareness to drive operational, logistical, and personnel safety-related decisions by airport safety personnel.

- Supports regulatory and legal compliance and equips airport personnel to easily meet industry and professional standards for audit and safety purposes.

Key features

Versatile display options allow both cloud-to-ground and in-cloud lightning representation on a map, with updates every 30 seconds. Display includes lightning polarity, magnitude of each strike, and a color-scaled time stamp to visualize storm path.

Easy measurement between locations, such as the distance between a cloud-to-ground lightning strike and an asset, as well as the ability to toggle between day and night modes, provide zoom and pan modes, and present a coordinated display following the cursor to create a comprehensive portrait or video of lightning data.

Lightning Threat Zone capability provides a one-hour forecast of the potential for lightning in 10-minute increments, incorporating storm trajectory and storm cell velocity, speed, and direction.

Alerting functionality easily integrates with web-to-audio and visual solutions to quickly alert outdoor workers of hazardous conditions.

Why Vaisala?

The industry's most dependable thunderstorm tracking technology

Vaisala is the most experienced aviation weather company in the world, with a suite of solutions built on more than 45 years of aviation experience. It is trusted in more than 160 countries, from the Nordics to Africa, the Americas, and Asia.

Aviation customers can choose the most suitable solution for their unique situation: from a standalone, on-premises local-area lightning detection sensor to a network-based solution such as Thunderstorm Manager.

Support and services you can count on

Look to Vaisala for

dependable support, project capabilities, and training so you can get the most from your system. With decades of experience providing the best technologies and the finest support, Vaisala's philosophy of partnership is unmatched in the industry.

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