VAISALA

Forward Scatter Sensor FD70

Enhance mission-critical airfield operations with transformative, reliable forward scatter technology



Optimize airfield operations — and know the weather before you see it. From dust to ice and freezing rain, get unparalleled accuracy detecting 100% of precipitation and other elements to support safer and more efficient takeoffs and landings.

Master the elements, improve efficiency and fulfill your most important operations. The Vaisala Forward Scatter Sensor FD70 is the only forward scatter sensor in the world to detect every obscuration from sand, dust and precipitation, and is best-in-class for visibility and present weather including runway visual range (RVR).

More precise than human observation, the FD70 provides constant, reference grade performance to automatically detect and report the slightest amount of visibility obscuration whether from precipitation or non-aqueous particles. The device outperforms and can replace several separate sensors including visibility and present weather, freezing rain and rain gauge.

Based on more than 30 years of forward scatter technology development, the FD70 offers the key features customers rely on: fast, uncompromised measurement performance and dependable reliability. Remote access, automatic troubleshooting and low maintenance keep lifetime costs low while optimizing performance.

Key benefits

Maintain safe, informed operations at any airfield

Accurately detects 100% of even the slightest precipitation and non-aqueous particles for lapse-free, 24/7 awareness of airfield visibility.

Sustain top performance in the harshest conditions

Detects every type of obscuration that conventional technologies struggle with, no matter what the elements bring.

Gain integrated, secure sensing capabilities

Uncompromising accuracy and configurable design replaces several sensors, while integrated software security maintains data and instrument integrity.

Focus on performance

Remote access, automatic troubleshooting, and low maintenance with fewer spare parts keep lifetime costs low while optimizing performance.

Rely on dependable accuracy

Based on more than 30 years of forward scatter technology development with fast, uncompromised measurement performance over a full range of parameters with dependable accuracy.

Making weather your ally



The FD70 is the only present weather sensor in the world that detects visibility obscuration from all of these elements.

Drizzle Ice pellets

Dust and sand Mist

Fog Mixed precipitation

Freezing drizzle Rain

Freezing rain Snow

Hail Snow grains

Haze Snow pellets

Ice crystals

Why Vaisala?

We believe in the relentless pursuit of quality and performance, anywhere and everywhere.

Vaisala is the only company in the market with more than 30 years of field data from the world's largest installed base of visibility and present weather technology, including thousands of commercial and military airbases. Backed by 85+ years of measurement expertise, our solutions are trusted in more than 170 countries pole to pole.

You're covered if questions arise with 24/7 global support—now and in the future—plus 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.



