

# Forward Scatter Sensor FD70

**VAISALA**

## Product Spotlight

### Trusted weather observations for a sustainable future

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.



## Key benefits

The FD70 is equipped with visibility up to 100 km (62 mi) Meteorological Optical Range (MOR).

Protect against common measurement disturbances with proven look down geometry.

The FD70 is build at the optimal recommended forward scatter angle of 42°, with full ICAO, FAA, and WMO regulation compliance.

Detect and process each particle as a single event with a thin light sheet and fast sampling rate.

Ensure constant accuracy and ease of maintenance with independent window contamination measurement and compensation.

Detect 100% of every obscuration with lithometeor and hydrometeor detection.

## Why Vaisala?

With over 85 years of experience in weather and environmental technology, Vaisala is the world's most trusted provider of weather observation systems for tactical operations.

Committed to excellence, we take every measure to ensure our systems are not only comprehensive in their observations but also meet the most stringent performance requirements in any situation.

We provide 24/7 global support, extensive project capabilities and thorough training throughout the entire lifespan of your system to help you make weather your ally when it matters most.

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.

## Present weather identification available in FD70

- Drizzle
- Rain
- Snow
- Snow grains
- Ice crystals
- Ice pellets
- Freezing drizzle
- Freezing rain
- Snow pellets
- Hail
- Fog
- Mist
- Haze
- Sand
- Dust

