

# VAISALA

## Vaisala Forward Scatter FD70



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*Vaisala Forward Scatter FD70 is the seventh generation of Vaisala visibility and present weather sensors. FD70 is designed based on more than 30 years of forward scatter technology development experience. This technology innovation sets a new standard in precipitation identification, quantification, and visibility determination accuracy.*

FD70 consists of two product models: FD71P full-featured visibility and present weather sensor and FD71 visibility sensor.

Both product models can function as stand-alone units, interoperate as an integral part of Vaisala systems, or work with different third-party systems.

FD70 can replace older Vaisala forward scatter sensors and provides a unique set of new features and capabilities.







## Meteorology

- Best-in-class 3-in-1 performance: visibility, present weather, and precipitation quantification
- Significant enhancement of drizzle, freezing rain, hail, and ice pellet identification
- Easy maintenance and long lifetime

FD70 is based on innovative integration of forward scatter and disdrometer technologies. It can detect and identify each droplet correctly. It provides accurate visibility measurement with proven calibration traceability and a range of up to 100 km. FD71P has superior precipitation type identification capability and enhances precipitation intensity and accumulation measurements. FD70 was developed to meet the WMO SYNOP reporting needs for precipitation and obscuration types.

As a factory-calibrated, plug-and-play sensor it is easy to install. FD70 uses a window contamination compensation algorithm and heating to enable reliable operation in the harshest environments. Unlike weighing rain gauges, FD71P provides nearly maintenance-free measurements of precipitation intensity and accumulation. FD70 offering also includes spare parts and 24/7 technical support.

## Airport Weather

- Accurate measurement for RVR
- Enhanced freezing precipitation detection
- Robust and intelligent operation for constant performance



Vaisala has more than 40 years of experience in airport weather products and continues investing significantly in future development. Efficient airport utilization and bringing passengers home safely are fundamental needs of airports today. Vaisala weather solutions support airports in this respect.

As part of the Vaisala AviMet® System, FD70 improves airport safety and operational efficiency. It is the best-in-class visibility and present weather sensor and a key component for runway visual range (RVR) calculations where accuracy matters. FD70 is an ICAO-compliant sensor with proven calibration traceability.

FD71P incorporates high-accuracy precipitation identification, enhancing freezing rain detection. FD70 has robust design with intelligent features for reliable operation and enhanced performance in all weather conditions. It provides consistently accurate data supporting correct operational decisions.

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[vaisala.com](https://vaisala.com)

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