

Vaisala Forward Scatter Sensor FD70

Product Spotlight

Providing trusted weather observations for a sustainable future

Enhance weather insights and simplify your network with transformative, trustworthy forward scatter technology.

Accurate forecasts require accurate in-situ weather information. Precipitation and visibility measurements are among the most impactful ones for accurate forecasting and weather awareness. Improvements in sensing have implications for better decision-making, improved public awareness, safety, and regulatory compliance.



Key benefits

Each precipitation particle is identified, providing best-in-class precipitation intensity and accumulation measurements.

Built fully compliant with ICAO, FAA, and WMO regulations.

Enable easy remote access with versatile connectivity.

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

Enjoy comprehensive reporting, including visibility, present weather, precipitation accumulation, temperature, humidity, droplet size and fall speed distribution, kinetic energy, and radar reflectivity.

Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala provides trusted weather observations for a sustainable future. With over 85 years of experience and customers in 170+ countries, from the North and South Poles to Mars, we help provide the most reliable and accurate weather and climate information for better and safer daily lives.

Our instruments and intelligence are known as the gold standard for precision and reliability. As a sustainability leader we enable meteorology professionals to better understand, forecast and explain climate change. We continue to channel our curiosity into climate action and new ways of enabling a better planet for all.

Master the weather, act decisively and protect your community

Accurate, reliable surface weather detection is crucial to the protection of life and property. This is especially true with changing weather patterns, climate change, urbanization, and other related factors.

The Vaisala FD70's seventh-generation technology solves these perennial problems, providing best-in-class, 3-in-1 performance for outstanding visibility, present weather, and precipitation quantification in a proven, dependable design.

Maintain reference-grade performance in the harshest conditions

Detect even the smallest droplet and reach visibility range of up to 100 km. FD70's pioneering and unique design provides constant, reference grade performance to detect everything from freezing drizzle to sandstorms.

Innovative integration of forward scatter and optical disdrometer technologies sets a new standard in precipitation identification, quantification and visibility determination accuracy.

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

