

## Vaisala Runway Weather Information System (RWIS)

Weather affects many different aspects of airport operations. Accurate real-time weather monitoring is one of the most cost-effective ways to ensure safe continuous airport operations. The Vaisala Runway Weather Information System (RWIS) is designed to provide airport staff with critical information to make informed decisions about treating, clearing, and maintaining runways.

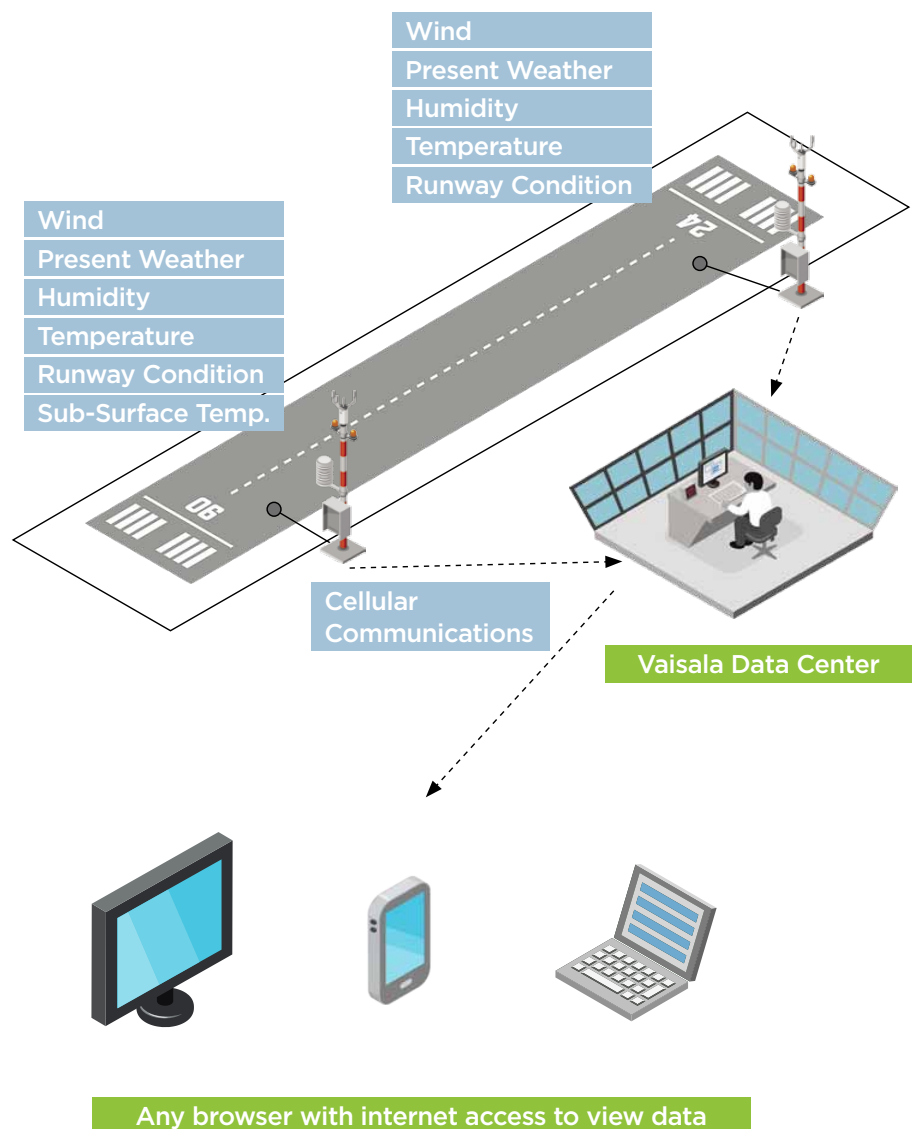
An RWIS system consists of in-pavement sensors, sub-surface temperature probes, and a full suite of atmospheric sensors. Data from all sensors are collected and processed in an on-field remote processing unit (RPU).

### System Components

- Pavement forecast capability
- Web-based graphical display
- Pavement temperature and condition sensor
- Sub-surface temperature sensor
- Atmospheric sensor suite (temperature, pressure, dew point, wind, precipitation, current weather)
- On-field Remote Processing Unit (RPU)
- Non-intrusive pavement sensor capability
- Fixed color camera capability
- Multiple communication options - cellular modem, wireline, radio, dial-up, TCP/IP

### Benefits

- Reduced runway maintenance costs
- Reduced chemical application based on reported conditions
- Advanced planning precision with IceBreak algorithm
- Multi-site access: home, snow plow, maintenance office, operations tower





Navigator II Hosted Display



Graphs show weather trend as well as forecasts.

## Maintenance

Vaisala offers a comprehensive maintenance program that includes: remote monitoring, annual pre-season inspection, 24-hour telephone support, onsite support for outages, and replacement of failed components.

## Navigator II Hosted Software

Vaisala's unique hosted option enhances the RWIS user display by adding our proprietary IceBreak pavement forecasting model. By hosting the airport data Vaisala also provides worry free operations to the airport, decreasing downtime and eliminating the need for an on-site server. Vaisala becomes the airport's weather partner by collecting RWIS reports, remotely monitoring the system and sensors, and archiving all data in our sophisticated redundant data centers.

## Forecasting

In addition to the IceBreak forecast model, Vaisala offers full forecasting services. Custom forecasts are generated for each airport customer and are delivered daily, including a daily outlook, 24-hour forecast, and 2-5 day forecast. Meteorological Consultants are available 24/7/365 for telephone and email consultations, and provide email, telephone, or text message alerts in case of weather events. Vaisala's forecasting services are flexible and customizable to the airport's particular needs.



RWIS installed on a Runway – RPU with sensor suite (atmospherics)

Contact your Vaisala Sales Representative for assistance designing an RWIS configuration specific to your airport.

**VAISALA**

[www.vaisala.com](http://www.vaisala.com)

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