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Product Spotlight

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Runway Weather Station RWS200

Accurate and reliable weather intelligence to keep runways, taxiways, and ramps safe

Gain a comprehensive and actionable understanding of local weather conditions to prioritize safety, make informed decisions, and ensure mission-critical runways operate smoothly.

The RWS200 reference-grade weather station has been tested in the harshest winter weather conditions. It is highly configurable, easy to use, and supports intelligent system integration and operability. Its enclosure is also designed from years of experience in the field and careful materials analysis, ensuring the sensors and instruments remain unharmed at all costs.

A wide range of message format options ensures the RWS200 integrates easily with other technologies — like Vaisala AviMet® — and other systems.

Key benefits

Unparalleled uptime

Our industry-leading, ultra-precision-grade components and rugged sensors are tested and validated in thousands of real-world deployments. They are built to last, even when exposed to the harshest weather conditions.

Proven reliability for minimal disruption

Improve safety and increase airport operational efficiencies by leveraging the most renowned weather technologies in the aviation industry. The RWS200 is the preferred choice worldwide.

Confident decision-making

Data collected via the RWS200 provides the best clarity in high-pressure situations. Take swift and decisive actions to maintain safe, efficient, and continuous airport operations — always.

Adaptable to your airport's needs

The RWS200's upgrade and expansion capabilities extend its operating lifetime and ensure strong long-term performance, even as observation requirements change.

Acquisition of road weather observations

- Observations with history
- Observation data quality
- Camera pictures
- Protocols: DTO XML, NTCIP, Datex II, MES 14/MES 16

Visualization and decision support

Vaisala Wx Horizon,
Vaisala Road DSS Navigator,
or any 3rd party application

Network management

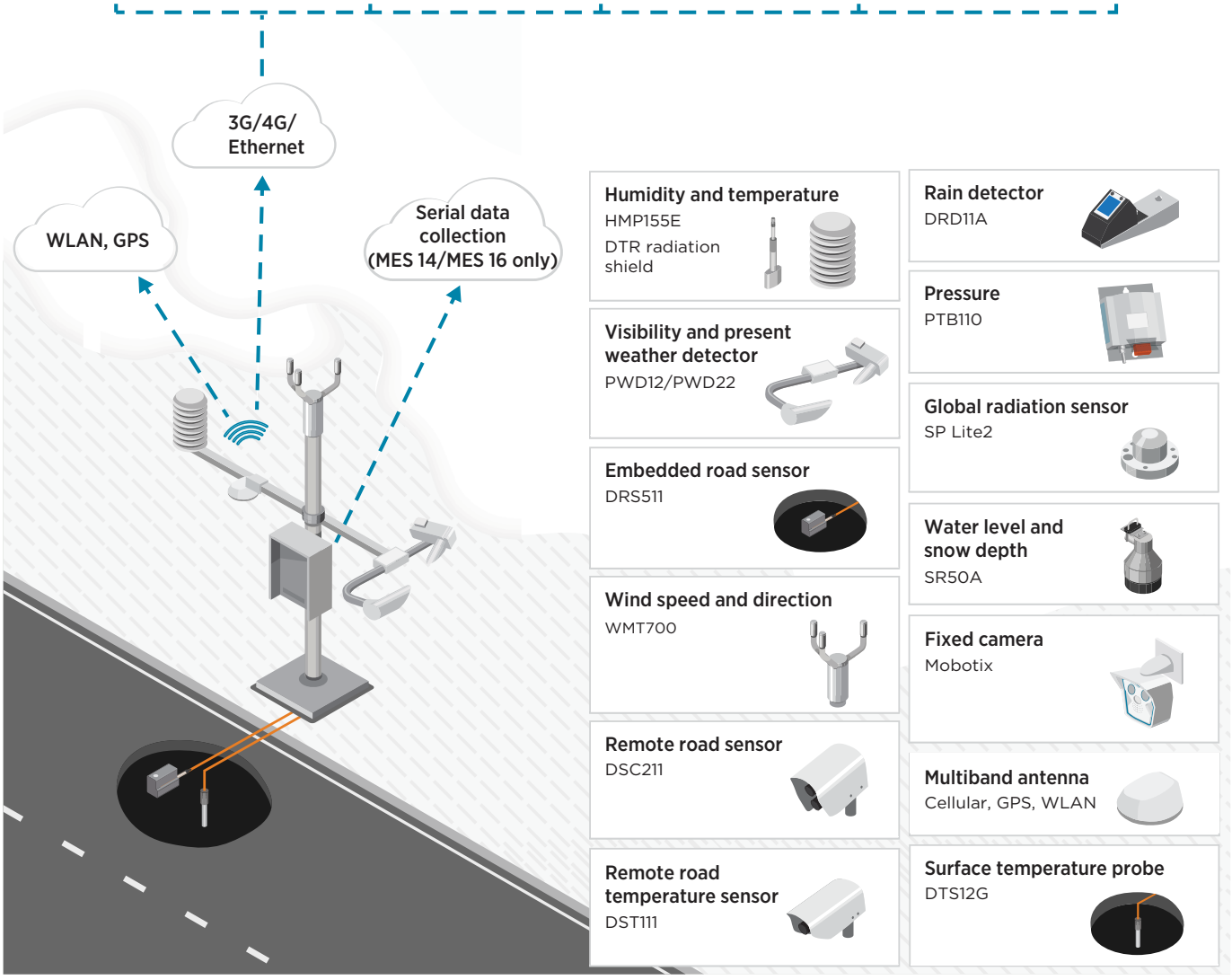
Vaisala NM10
- Monitoring, events, alerts
- Metadata management
- Remote restart
- Centralized software update

Direct remote maintenance connection

- Maintenance and configuration
- Software update and restart
- Observation visualization

Local maintenance connection (wired and wireless)

- Local station configuration
- Calibrations
- Maintenance actions
- Observation visualization



Humidity and temperature
HMP155E
DTR radiation shield

Visibility and present weather detector
PWD12/PWD22

Embedded road sensor
DRS511

Wind speed and direction
WMT700

Remote road sensor
DSC211

Remote road temperature sensor
DST111

Rain detector
DRD11A

Pressure
PTB110

Global radiation sensor
SP Lite2

Water level and snow depth
SR50A

Fixed camera
Mobotix

Multiband antenna
Cellular, GPS, WLAN

Surface temperature probe
DTS12G

RWS200 at a glance

Applications for runways

- Continuous reference-grade weather data supports better outcomes for airport winter maintenance.
- Accurate airport runway condition intelligence for up-to-the-minute runway safety critical treatment decisions.

Key features

Intelligent tools, from anywhere

Sophisticated road-state analysis algorithms for ramp and runway condition analysis. Remote service features reduce downtime, and smart power logic ensures continuity in the event of main power failures. Receive data on the go and initiate software updates remotely via ethernet and cellular connections.

Multiple data export formats

Easily integrate data into other systems by formatting and saving data to DTO-XML, MES, DATEX II, and NTCIP.

Reference-grade measurements

Sophisticated analysis algorithms for ramp and runway condition analysis. Supported by comprehensive range of Vaisala weather and precipitation sensors.

Access comprehensive and critical weather data:

- Humidity, temperature, and dewpoint
- Road surface and air temperatures
- Rain accumulation and precipitation
- Road surface state assessment
- Visibility and present weather
- Wind speed and direction
- Water and snow depth
- Solar radiation

Why Vaisala?

The aviation industry's most admired technology

With hundreds of RWS200 units in operation around the globe, airports consistently choose Vaisala's proven technology to guarantee safe and efficient takeoffs and landings because it's extremely dependable and can withstand any kind of weather.

Unwavering customer support

With decades of experience providing sophisticated technology in the aviation industry, Vaisala partners with airports — anywhere and any size — for long-term success.

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