



Mobile IceSight

Surface Condition Sensor
Models 2020M and 5435



Features

- Non-contact surface condition sensor
- Eye-safe optics
- Measurement range 3 to 15 ft
- Includes surface and air temperature sensors
- Easy integration with existing AVL and MDSS systems
- Data dash display from any Web Browser
- Optional humidity and dew point sensor →



Overview

The *Mobile IceSight* is a remote mobile sensor that provides real-time surface condition and atmospheric information from a moving vehicle. It uses infrared technology to detect hazardous surface conditions without embedding any sensors in the pavement. The compact and rugged design can withstand the harsh environments of winter maintenance vehicles making it ideal for fleet management.

The sensor's open-architecture data output includes air temperature, relative humidity, surface temperature, six distinct surface indications and a surface friction coefficient.

Data is provided to the user via a web based display compatible with any standard web browser on a computer or smart device. In addition, a java applet is provided for sensor auto calibration and data logging.

When coupled with the Mobile Processing Unit and Glance subscription, the Mobile IceSight provides an AVL solution with a comprehensive data display and management tool.

Applications

- Real-time surface and atmospheric data when and where you need it
- Integrate into existing RWIS network to fill in gaps between fixed stations
- Integrate into existing AVL/MDSS systems with open-architecture data output
- Tool for vehicle fleet route optimization

Output

- Surface Condition
Dry, Damp, Wet, Slush, Snow, Ice
- Surface Grip Factor (0 to 1)
- Pavement Temperature
- Air Temperature
- Humidity and Dew Point (Option)
- ASCII text
- Graphical surface condition GUI

Specifications

Power.....	10-14 VDC
Power Consumption.....	5 Watts
Operating Air Temp.....	-40° C to 65° C
Range.....	3 to 15ft (1 to 4.5m)
Spot Size.....	6" Diameter @ 5ft
Elevation Angle.....	30° to 60°
Sensitivity	0.01" ice/water, 0.05" snow
Surface.....	Asphalt/Concrete
Surface Temp..±0.5°C@0°C,±1°C@-40° to 85°C	
Air Temp.....±0.2°C@0°C,±0.5°C@-40° to 65°C	
Relative Humidity...±1.8%@10% to 90%RH, ±3%@0% to 10% and 90% to 100%	
Communication.....	Wi-Fi (standard) RS-232,RS-485,Ethernet (options)
Cable Length.....	15 ft (4.5m)
Dimensions.....	11.5" x 4.0" x 2.3"
Weight.....	3 lb