

Runway Demountable Surface Sensor



Features & Benefits

- Measures Surface Temperature
- Measures Surface Condition (dry,wet,ice)
- Surface State & Chemical Present
- Freeze Risk Warning
- Easy to maintain
- Compatible with Icelert 2000 Mk8
- Integrates with AWIS Icelert Bureau
- Active Surface Sensor

Application

The Runway Demountable Surface Sensor has been specifically designed to measure a variety of surface conditions on airport runways. The sensor is robust in order to meet the unique demands of runways and designed to be easily serviced to minimise disruption to manoeuvres.

Data from the Runway Demountable Surface Sensor is sent to a nearby weather station such as the Findlay Irvine Icelert 2000 Mk8 which collects the data and sends it to the Airport Weather Information System (AWIS) Icelert Bureau where the data can be viewed and is stored.

Surface Measurements

The Runway Demountable Surface Sensor can measure Surface Temperature, Surface Condition including if it is dry, wet or ice is present. It also monitors Surface State and highlights if there is de-icing chemical present or not while having the ability to off airport managers a freeze risk warning.

How it works

Operationally, the sensor uses active (heating/chilling) techniques to determine the runway surface state. These techniques have been developed over many years and have been proven to be highly effective and reliable for airport operations.

Detection is independent of the de-icing chemical - the operator can use any de-icing chemical or combination and is unaffected by surface contamination. The operator does not have to make allowances for chemical dilution due to moisture or other contaminants when interpreting the surface condition.

AWIS Icelert Bureau

The AWIS Icelert Bureau can display, store and record all weather data. It can be customised for individual airports and offers a secure log-in system to users. The system can be either a closed, desktop based system or online accessible via any internet enabled browser.

Technical Specification

Demountable Runway Surface Sensor

Compatible with:	Icelert 2000 Mk8; Icelert 2000 Mk6
Sensor Parameters:	Surface Temperature Surface State: Dry/Wet/Chemical Present Freeze Risk Warning Precision Thermistor
Temperature Sensor:	
Temperature Range:	-25 to +26°C
Temperature Accuracy:	±0.2°C
Temperature Resolution:	0.2°C
Chiller Capacity:	Surface -4°C
Heater Capacity:	Surface +10 °C
Material:	Epoxy resin, dark grey
Environmental Protection:	IP67
Dimensions:	L 600mm x W 100mm x H 150mm
Operation Temperature Range:	-30...70°C
Operating Humidity Range:	0...100%
Range:	±0.5°C from +20 to -20°C, otherwise ±1°C
Part number:	I972621



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