

## Icelert MK8 – Roads



## Features & Benefits

- Input multiple weather sensors
- Transmits data to RWIS Icelert Website
- Easy to maintain & calibrate
- Operates at wide temperature range
- Mains or Solar powered
- Landline, radio, GSM, GPRS Coms
- Optional IP Cameras
- Manage data online

## Application

The Icelert MK8 Road Weather Information System (RWIS) outstation allows information relating to runway weather to be measured and transmitted to a bureau service and/or master station from where the information may be made available to winter maintenance engineers and others.

The outstation can interface to a wide variety of meteorological and road surface sensors. In addition, a number of un-committed analogue and digital inputs are available for additional sensors that may be required for specific applications and for customisation to suit your particular network needs.

## Sensors Range

The Icelert Mk8 has the ability to interface with a range of different weather sensors from active Road Sensors to Air/RH to Visibility Sensors. The adaptability allows the Icelert Mk8 to be integrated into a customised system in order to provide the weather information that is required.

## Communications

A range of communication media may be used to transfer road weather information from the RWIS, including PSTN modem, GSM, GPRS, radio or packet-radio. PSTN modem and GSM/GPRS modems may be included on the main Icelert 2000 Mk8 electronics PCB.

## Web Based Management

Findlay Irvine provides an Icelert RWIS Icelert website that allows Engineers to view the data being collected by the Icelert Mk8 sensors. This can be displayed on either a closed, desktop-based system placed within the decision making perimeter and/or via an online secure bureau portal that can be accessed by any internet-enabled device. Data is stored, managed and viewed from the same portal which offers a complete winter maintenance management system.

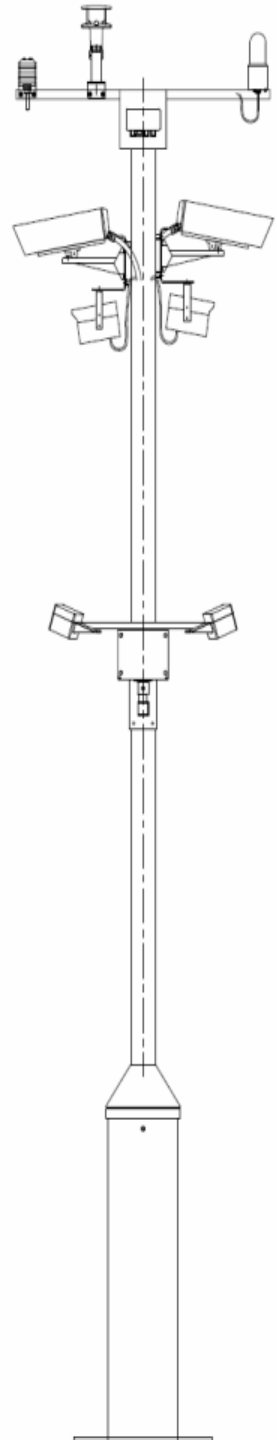
# Technical Specification

## Icelert Mk8

<b>Power requirements:</b>	Mains or Solar (optional Solar Panel extra) (Sensor configuration dependant)
<b>Mains Isolator Switch:</b>	Yes
<b>Heater:</b>	Anti-condensation
<b>Mount:</b>	Wooden Back plate Mounted, Stainless Steel Casing
<b>Expansion Board:</b>	Required for Standard Surface Sensors
<b>Communications:</b>	Modem (PTSN, GSM, GPRS, 3G), Fibre Optic, Radio WMO BUFR, DATEX II data format (TR2213)
<b>Programmable:</b>	Software is remotely upgradeable
<b>Memory:</b>	24 Local Archive
<b>Test Port:</b>	Local configuration & diagnosis

## Optional Sensors

<b>Standard Surface Sensor:</b>	Standard Sensor with 25m Cable
<b>Luft ARS31:</b>	Active Surface Sensor
<b>Deep Sensor:</b>	Two Deep Temperature Sensors
<b>Hygroclip:</b>	Air Temperature & relative Humidity Sensor
<b>WindSonic:</b>	Ultrasonic Wind Speed & Direction Sensor
<b>R2S PWS:</b>	Present Weather Sensor
<b>Precipitation:</b>	Yes/No Precipitation Sensor
<b>IP Cameras:</b>	Dual or Single high quality IP Cameras
<b>Sentry Visibility :</b>	Atmospheric Visibility Sensor



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