

Icelert MK9 – Roads



Features & Benefits

- Input multiple weather sensors
- Transmits data to www.icecert.net
- Easy to maintain & calibrate
- Operates at wide temperature range
- Mains or Solar powered
- GPRS Communications
- Optional IP Cameras
- Manage data online

Application

The Icelert MK9 Road Weather Information System (RWIS) outstation allows information relating to road weather to be measured and transmitted to a bureau service – www.icecert.net - 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 MK9 has the ability to interface with a range of different weather sensors from road surface condition and temperature sensors to smart weather sensors combining air temperature, relative humidity, wind speed and direction, and precipitation measurements. The adaptability allows the Icelert MK9 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, most commonly GPRS.

Web Based Management

Findlay Irvine provides an Icelert RWIS Icelert website that allows engineers to view the data being collected by the Icelert MK9 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.

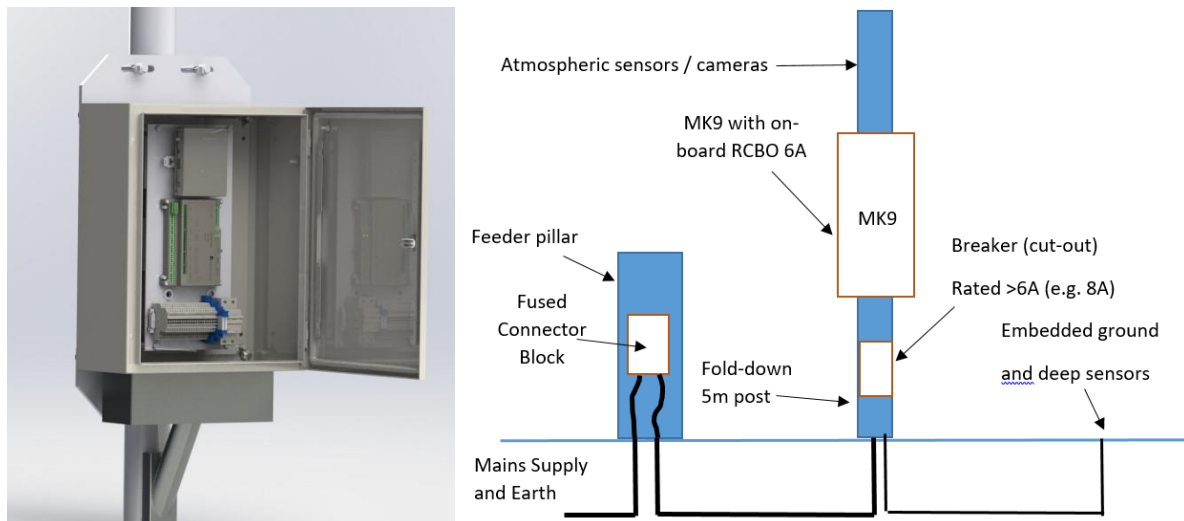
Technical Specification

Icelert MK9

Power requirements:	Mains or Solar (optional Solar Panel extra) (Sensor configuration dependant)
Mains Isolator Switch:	Yes
Heater:	Anti-condensation
Mount:	Wooden Back plate Mounted, Stainless Steel Casing
Expansion Board:	Required for Standard Surface Sensors
Communications:	Modem (PTSN, GSM, GPRS, 3G), Fibre Optic, Radio WMO BUFR, DATEX II data format (TR2213)
Programmable:	Software is remotely upgradeable
Memory:	48 hour Local Archive
Test Port:	Local configuration & diagnosis

Optional Sensors

Standard Surface Sensor:	Standard Sensor with 25m Cable
Lufft IRS31:	Passive Surface Sensor (RST, condition, water film depth, grip)
Deep Sensor:	Up to Two Deep Temperature Sensors
Hygroclip:	Air Temperature & relative Humidity Sensor
WindSonic:	Ultrasonic Wind Speed & Direction Sensor
Precipitation:	Yes/No Precipitation Sensor
Lufft smart weather sensors:	Multiple parameters from a single sensor unit
IP Cameras:	Dual or Single high quality IP Cameras
Lufft VS2K/VS20K Visibility :	Up to 20km range



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