



TRANSPORTATION SOLUTIONS



Rugged

to withstand even the harshest environmental conditions

Low-Power

offering either solar or AC power, depending on your needs

Compatible

allowing for easy integration with any 3rd party hardware or software

Customizable

modify your RWIS sensor configuration to meet your requirements

Road Weather Information Systems

Campbell Scientific Canada designs, installs, and maintains industry-leading road weather information systems (RWIS) to meet the environmental monitoring challenges of our municipal, provincial, and corporate clients. Our experience implementing advanced RWIS solutions in some of the world's most unpredictable climates, and for clients with incredibly unique challenges, has made us a true leader in the industry. Whether you're looking to build a new RWIS network, expand or densify an existing network, or are seeking cost-effective alternatives to full RWIS stations, CSC has a solution for you.



Solutions for Establishing or Expanding an RWIS Network

We offer a variety of systems for our clients that include both invasive and non-invasive options. Our systems include a tower, remote processing unit (RPU), remote communication hardware, and sensors for the measurement of wind speed and direction, air temperature, humidity, dew point, barometric pressure, solar radiation, and precipitation.

All of our systems can be customized by adding cameras or additional hardware, and can include data services and forecasting when required.

More info: 780.454.2505

campbellsci.ca/rwis





Cost Effective Solutions for Monitoring & Densification

For clients who are looking for a smaller scale solution to fit within budget, or are looking to densify an existing RWIS network to monitor micro-climates, we recommend our Campbell Cloud solution.

Campbell Cloud is a low cost, low power, quick-deploy station that can be used as a stand-alone system or can be integrated into an existing RWIS network. Due to the compact nature of the Campbell Cloud station, this solution is ideal for municipal applications. Typical systems include a quick-deploy post, remote communication hardware and an array of sensors tailored to client needs.

Environmental Intelligence

In addition to providing a cost-effective RWIS solution, Campbell Cloud also consists of an optional add-on software platform for environmental decision support. Clients have the option to add the Campbell Cloud software portal to any of our RWIS solutions to collect road weather data and have it translated into actionable indicators that help proactively plan for roadway maintenance.

Frost Probes

Campbell Scientific Canada offers a selection of frost probes that are suited for a wide variety of applications and environments. The probes' applications include spring-load adjustment, frost and permafrost monitoring, and soil and water temperature profiling, and can be installed in roadbeds, soils, and water (snow and ice). Paired with air temperature sensors, the frost probes can monitor the onset of freezing and thawing, capture freezing patterns and provide data to allow recommendations on optimal frost depths for seasonal loads adjustment. Frost probes are also used to assess freezing risks on utilities, such as water lines.



Intelligent Transportation Systems

Campbell Scientific Canada's intelligent transportation systems (ITS) offer complete solutions for your varied roadway management needs. Our solutions utilize thorough RWIS data to determine real-time conditions and inform road condition warnings, and public advisories. As a full service provider, we offer integration with existing RWIS and ITS infrastructure, as well as design, installation, and maintenance of new systems, including both hardware and software.



Maintenance & Service

Maintaining your RWIS and ITS networks is crucial to ensuring consistent, high-quality road weather data, and fast, effective roadway management. CSC's expert field services staff offer both proactive, scheduled maintenance services, and on-demand maintenance services as you need them. Regardless of the hardware in your system, our experts will inspect, repair, and recommend a maintenance schedule to ensure your network functions without issue.