



HIGH SIERRA ELECTRONICS  
*environmental monitoring solutions*



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## PRESS RELEASE

**Release Date:** Immediate

**Subject:** RWIS “Mini” Remote Processing Unit

Grass Valley, CA (October 18, 2010) – High Sierra Electronics, Inc. (HSE) a supplier of road weather monitoring and management systems, recently announced the release of its newest product, the Model 5470 NTCIP Mini RWIS Remote Processing Unit.

RWIS provide important information about weather and roadway conditions, helping operations and maintenance personnel stay informed so that they can make timely decisions and improve traffic safety. Full RWIS stations typically require new right-of-way space with a dedicated pad, tower, cabinet, fence, and utility work, which all contribute to the high price and complex installation. Many road weather related decisions need to be made in locations where Advance Traffic Controller (ATC) cabinets [with power and communications] are already established.

The Model 5470 is the heart of a non-proprietary, open architecture NTCIP-compliant Environmental Sensor Station, designed for primary deployment within existing or new ATC cabinets or Dynamic Message Sign cabinets. This unique approach to NTCIP-compliant RWIS allows simpler implementation at a lower cost than traditional installations.

The Model 5470 supports several ‘actionable’ weather sensors. The unit activates and deactivates isolated outputs based on user selectable high and low thresholds, enabling use of locally resolved weather status information to activate local public warning devices such as flashing beacon signs or changeable message signs. Further, these outputs may be used to activate preemptions within the ACT, enable new and innovative approaches to improving traffic safety.

In order to easily fit in the tight quarters of a traffic cabinet, the entire mini RWIS, including NTCIP controller, sensor surge protection, power converter and weather status outputs, is packaged to fit in a one rack unit mount enclosure. Sensors are deployed on existing nearby traffic poles or support structures using standard Astro-Brac or similar hardware.

Communications with the mini RWIS is NTCIP 1204 ESS via Ethernet or EIA-232/485 connection.

“Actionable” sensors include: Wind speed and direction, precipitation, visibility, optical road surface status, and water depth (for flood warning).

HSE warrants the Model 5740 for three years from the date of purchase.

HSE has been supplying weather systems, data management, and maintenance services since 1992. The company started in the field of flood warning and environmental monitoring and in 2000 expanded into road weather management. Today HSE has deployed more than 300 road weather environmental sensor stations.