

# Weather Independent Detection — Red Deer, Alberta



“The Sensys Networks VDS240 wireless vehicle detection system worked flawlessly and accurately throughout the winter.

They’re our new SCOOT loops.”

— Larry Sparling, R.E.T.  
Red Deer’s Traffic Administrator



## Reliable SCOOT Systems in Extreme Weather

Considered traffic technology innovators, the Canadian city of Red Deer was the first North American municipality to employ a SCOOT (Split, Cycle, and Offset Optimization Technique) system.

Located just east of Canada’s Rocky Mountains, Red Deer experiences balmy summers, and frigid, sub-zero winters. These extremes in temperature prevented traffic managers from gathering consistent and reliable information from their existing SCOOT system during winter’s coldest months.

To determine the robustness of the sensors, as well as the quality of the data gathered, Red Deer’s traffic managers opted to assess the Sensys Networks VDS240 wireless vehicle detection system for a full winter season. Installation took less than 15 minutes at each of the three trial intersection approaches, significantly reducing construction and street closure times, while consistently outperforming the loop-based systems in delivering high quality data in extremely low temperatures.

Accurate, dependable and highly economical in terms of total cost of ownership, the Sensys Networks VDS240 wireless vehicle detection system proved to be the most reliable and cost-effective solution for Red Deer’s SCOOT locations, and will be employed for all future SCOOT deployments.

Additionally, the city’s overall improvement in travel time and reduction in congestion earned Red Deer’s Traffic Management Program a Willis Honorable Distinction Award for Innovation, Dedication and Meritorious Service in Municipal Administration.

### Dependable Technology

Our rugged in-pavement, wireless magnetic sensor —with a remarkable 10-year battery life—is the core of VDS240’s technology.

### Flexible Installation

From one intersection—to an entire region, install detection precisely where needed in less than 15 minutes per unit. No trenching—and easily removed—sensors are reusable should a roadway undergo resurfacing.

### Lowest Operating Cost

Virtually maintenance free, wireless sensors install in minutes—and begin transmitting accurate data almost immediately. Remotely managed diagnostics, software upgrades, and configuration streamlines operations, while significantly reducing long-term maintenance costs associated with less advanced technologies—a potential savings of millions of dollars a year.

### Universal Platform

Simplifying operations with comprehensive data communications, archiving, and management requirements for performance measurement and analysis, Sensys Networks Universal Platform easily integrates with legacy systems, and supports all traffic detection applications—with one set of tools.



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