

## **Product Evaluation**

### **RE: Review of Sensys Networks Wireless Detection System**

#### **PRODUCT**

Sensys Networks Wireless Detection System is manufactured by Sensys Networks Incorporated located in Berkeley, California and distributed by Trafco Canada located in Edmonton, Alberta.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS**

Sensys Networks is the worlds leading provider of wireless traffic detection and integrated traffic data systems. Sensys Networks Wireless Detection System patented wireless magnetic sensors, has a 10 year battery life, and is installed in a fraction of the time and with less disruption to traffic than traditional detection technology. The sensors can detect bicycles that are stopped at a stop bar and differentiate between a vehicle and a bicycle. Product web link: <http://www.sensysnetworks.com/>

##### **DESCRIPTION**

Sensys Networks Wireless Detection System uses magneto-resistive wireless sensors to detect vehicle presence and movement. Sensors detect changes in the earth's magnetic field to determine the presence or absence of vehicles relative to the detection zone of the sensor. Detection events are transmitted via wireless radio communications to a Sensys Networks access point where they are processed, stored and forwarded to other systems.

##### **POTENTIAL USAGE**

The Sensys wireless sensors benefits: cheaper and faster to install than loops; wireless sensors report timely data; the data set from the wireless sensors is complete, valid and accurate. The wireless sensors can be installed quickly with existing crews, are more dependable than loops because of weather resistance and has near-zero maintenance. The sensors are: installed in pavement with no wires; impervious to weather; have superior accuracy, dependability and extensibility; universal platform for all traffic detection applications; self-calibrating, self-tuning; reusable and remotely upgradeable; capable of 300 million detections. Sensys system has been tested in every province in Canada and several cities in Alberta.

##### **STANDARDS**

Complies with part 15 of the Federal Communications Commission (FCC) rules

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE**

Alberta Transportation has limited experience with magnetic video detection.

##### **APPLICABLE STANDARDS**

At present Alberta Transportation has no standard.

##### **RECOMMENDATIONS:**

Sensys Networks Wireless Detection System be listed as a Potential Product under Alberta Transportation Products List, Traffic Control Devices – Traffic Detection – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

**TRIAL PROJECTS**

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