

Rapid Deployment — St. Louis, Missouri



“We installed Sensys Networks wireless systems at over 50 intersections with our own crew—in less than five minutes per sensor—resulting in significant savings.”

*Deputy Traffic Commissioner
St. Louis Department of Transportation*



Arterial Detection Improves Traffic Flow

When Missouri Department of Transportation (MoDOT) announced the closure of two vital traffic corridors in the city of St. Louis, residents were expecting the worst. With spans of I-64 and I-70 slated for yearlong construction, traffic would be diverted to arterials and surface streets—with the potential for severe congestion during peak periods. The city’s aging infrastructure would not accommodate an already overburdened conduit system—St. Louis needed a rapid, effective, and economical solution to mitigate a potential traffic “apocalypse.”

Selected for field study in 2006, the Sensys Networks VDS240 wireless vehicle detection system was tested in a variety of road surfaces and situations, including asphalt, concrete, steel in-deck, underground DC powered railway, and overhead lines. In every situation, the system performed flawlessly. The city of St. Louis quickly adopted VDS240 as their detection solution and readied for large-scale deployment.

Over 180 intersections, including side streets and left hand turn pockets along Skinker, Hampton, Jefferson, Grand, and the Kings Highway north/south corridors were deployed in record time. The city’s existing crews were able to complete an intersection configured with 14 sensors in under two hours, equating to three to four intersections per day. The system enabled immediate and effective green light timing for optimized traffic flow along these vital arterials—with minimal road closure and abbreviated roadway exposure for work crews.

Additionally, the Sensys Networks Archive, Proxy and Statistics (SNAPS) server was deployed at MoDOT TMC enabling traffic managers to remotely manage and monitor the entire sensor network.

Ease of installation, minimal maintenance, overall lowest total cost of ownership and exceptional performance, Sensys Networks VDS240 wireless vehicle detection system is the technology of choice for the city of St. Louis.

VDS240 wireless sensor—with a **10-year battery life**—is the core of our award winning technology

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.



2560 Ninth Street • Suite 219 • Berkeley, CA • 94710 • USA
T +1 (510) 548-4620 • F +1 (510) 548-8264
info@sensysnetworks.com • www.sensysnetworks.com



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