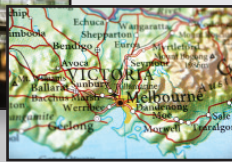


# Optimized Ramp Metering — Melbourne, Aus.



“The implemented technology is saving drivers on Monash Freeway more than AUS \$94,000 per day in vehicle operating costs and reducing inbound peak hour travel times by up to five minutes.”

— VicRoads  
Monash-City Link-West Gate Freeway Upgrade



## Optimized Ramp Metering Eases Congestion

Over 160,000 vehicles travel Melbourne’s Monash Freeway daily. This volume of traffic is near capacity for the region’s freeway system during peak hours. Shutdowns—lasting two to six hours—were a regular occurrence, resulting in significant cost and inconvenience for motorists and local businesses.

To improve traffic flow, VicRoads—the regional transportation authority—deployed Sensys Networks VDS240 wireless vehicle detection system along the Monash-City Link-West Gate upgrade. By replacing 64 fixed-time sites with coordinated freeway ramp signals, traffic managers were able to draw volume and speed data from across the freeway network for precise on-ramp metering and traffic flow.

Each ramp was configured with six sensors across lanes, communicating with nearby access points installed on poles along the freeway. Installation took under 10 minutes per sensor, and required only rolling lane closures—minimizing road closures and work crew exposure. Once installed, the system was easily integrated with the Ramp Metering Server at the TMC in Melbourne to begin providing real time traffic data—24x7.

Improvements in traffic were immediate. VicRoads cited significant enhancements in travel times and throughput - with the freeway system reaching near maximum capacity during peak usage—without the shutdowns. The system paid for itself in the first 11 days of usage by reducing inbound travel times by five minutes during peak hours, and saving AUS \$94K per day in vehicle operating costs.

### 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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