



# RoadPod® VL Vehicle Loop Counter

## Inductive Loop Detection

### Established Sensors, Revolutionary Results

MetroCount's RoadPod® VL utilises inductive loop sensors to detect when vehicles enter and exit an inductive field. Contractors familiar with traffic signal sensors will find installation of MetroCount specified loop sensors straightforward. MetroCount's diagnostic tools, LoopScope and LoopMonitor, come bundled with MTE to provide full diagnostics of installed loops. These tools assist in the assessment of existing loops for retrofitting the RoadPod® VL, along with validating new installs and ensuring data quality prior to a survey.

### Two Models, Two Applications

The two RoadPod® VL models serve two distinct applications while both connecting to inductive loops. The 5810 model detects signals from two loops per lane to provide length based classification, volume and speed, from two lanes per counter. The 5805 is designed for binned volume counts, connecting to a single loop per lane from up to four lanes per counter.

### Length Based Classification

With detection of vehicles based on beginning and end rather than each axle, the 5810 provides accurate length classification with time stamps triggered when a vehicle enters and exits each inductive loop field.

Standard length-based schemes define vehicle classes, but as always with MTE, custom schemes can be created with any number of length classes.

### Four Lanes Of Binned Data

The 5805 model has four inputs to accurately count up to four lanes of traffic. Fully configurable bin size, thresholds, and lockout times allow for customisation at each site. The 5805 is designed for projects where volume information is required providing up to 4 years of data memory. Binned counts allow the unit to collect data for extended time periods and with the addition of a solar panel to replenish the internal battery the unit can record long-term volumes at remote sites.

### Real Counts at Car Parks and Toll Gates

With variable loop shape and size, the 5805 is suited for collecting volumes even at low speeds. With the ability to detect vehicles even where lane discipline is poor, the 5805 can be adapted to a range of applications.

### RoadPod® + FieldPod®

The RoadPod® VL can be extended to provide remote functionalities with the optional FieldPod® add-on. Through the mobile network, FieldPod® enables remote download, data checks and site diagnostics.



*Two loops per lane with the 5810 model provide the City of Perth year round data on vehicle length, speed, and volume.*





Loop Diagnostic Tools

Diagnostic	Function
LoopScope	Provide feedback on the properties and condition of loops.
LoopMonitor	Testing connections including screw and crimp terminals.

Lane Coverage

Road Side Unit	Number Of Lanes
MC5810	2 Lanes 4 Loops
MC5805	4 Lanes 4 Loops

## RoadPod® VL 5800 Hardware Specifications

**Power:** Internal: 6V 18Ah, 4 D alkaline cells. Cabinet: 12V rechargeable battery for ongoing solar panel charging.

**Sensor type:** Inductive loops.

**Time resolution:** Better than 1ms.

**Optimum Loop Size:** 2m x 2m.

**Optimum Loop Spacing:** 5m.

**Enclosure:** Cabinet mounted.

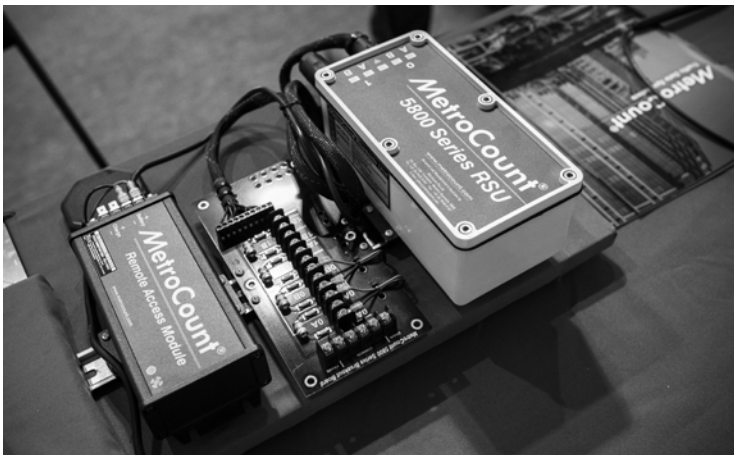
**Loop Inductance Range:** 50 - 500 $\mu$ H (150 $\mu$ H optimum).

**Loop Oscillator Range:** 45 - 65kHz.

**Included with MC5800:** MTE™ software, operating and reference manual.

**Required accessories:** Breakout board, data communications cable.

**Optional accessories:** Windows tablet or notebook computer, DIN rail mounts.



Counter, breakout board and 3G modem.



Installation of inductive loops to MetroCount spec.



A low volume site with 5810 installed.

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