MetroCount® Product Brochure

RELIABLE TRAFFIC MONITORING
Automatic Traffic Counters/Classifiers. Data Analysis Software.

MetroCount®
Vehicle Classifier System

Automatic Traffic Counters/Classifiers

RoadPod® VT
Portable traffic counter with two rubber tubes for short-term road traffic surveys.

RoadPod® VT4
Portable traffic counter with four rubber tubes, enabling comprehensive data collection from highways and other multi-lane carriageways.

RoadPod® PhaseT
This counter is attached to traffic lights or rail crossings, using rubber tubes and an optical fibre connection to gather traffic data in relation to signal phases.

RoadPod® VP
Permanent vehicle counter with piezoelectric sensors. Ideal for major roads with heavy flows to provide continuous, lane by lane, seasonal data.

RoadPod® VL
Permanent vehicle counter using inductive loops for recording class, speed and volume data (model VL5810) or just traffic volumes (model VL5805).

RoadPod® VM
The RoadPod® VM patented magnetometers are small, unobtrusive and off-grid vehicle counters that provide real-time data on traffic movements.

RidePod® BT
Portable bike counter with rubber tubes for short-term bicycle & e-scooter surveys.

RidePod® BP
Permanent counter gathering data on bikes, e-scooters & pedestrians with embedded piezoelectric sensors.

REVOLUTIONISING TRAFFIC SURVEY MANAGEMENT AND DATA ANALYTICS

ATLYST by MetroCount®

TRAFFIC ANALYTICS

INDIVIDUAL VEHICLE DATA
ATLYST uses the familiar and trusted MTE algorithms to generate statistics using each vehicle.

INTERACTIVE MAP VIEW
ATLYST uses editable colour schemes and three data layers (Volume, Speed and Class) to quickly and clearly display network-wide traffic behaviour, track changes and identify unusual patterns.

AUTOMATED REPORT CREATION
Get access to a detailed view of each survey site with one click, including the 85th percentile speed, ADT, peak hours, virtual days, etc. Apply filters to quickly reach specific information.

SMART MULTI-SITE COMPARISON
Store and access traffic data at the same location to quickly see changes over years. Select neighbouring locations for multi-site comparison.

VARIOUS DATA FORMATS
ATLYST securely archives your raw data files and exports statistics in PDF, CSV and XLSX formats.
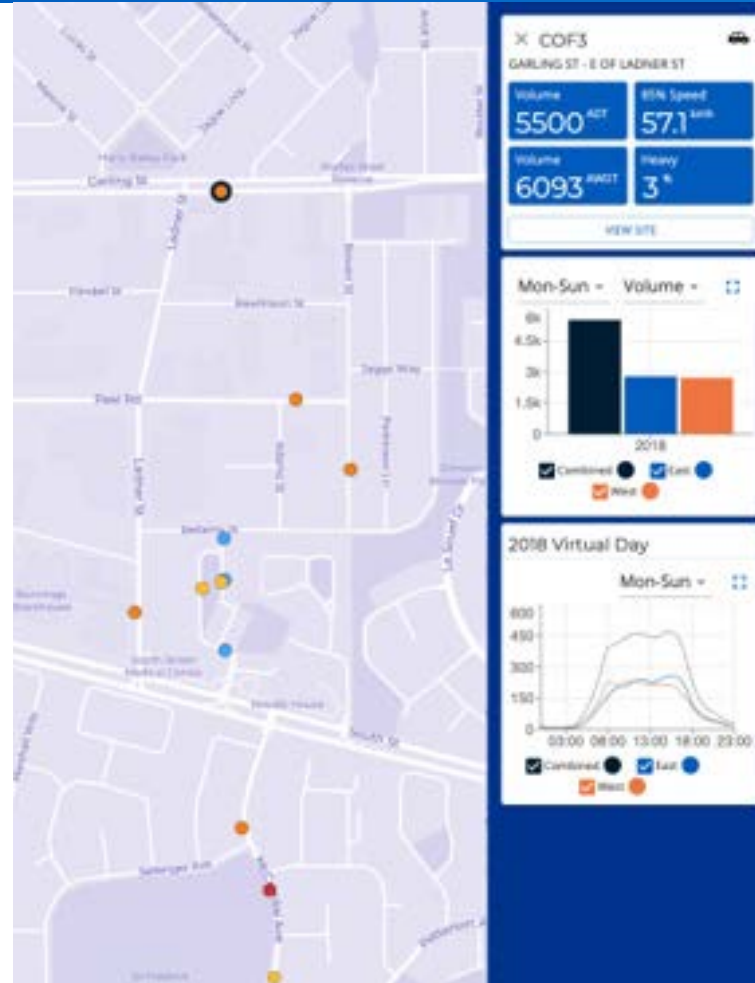
DATA & SURVEY MANAGEMENT

AUTOMATED DATA VALIDATION
Drag and drop your files into ATLYST to start an automated data quality control process. You will be notified if any anomalies are found.

SMART SITE EDITING
ATLYST uses built-in tools to enable easy changes to site details or merging of multiple datasets at neighbouring locations into the same site.

CONSISTENT SURVEYS
Easily create and send MTE Site Lists to your field team and contractors, ensuring replicated surveys use the same site details. Save time and keep your data organised.

SECURE DATAFILE ARCHIVE
Build your archive of raw data files in the Cloud for quick access and download from any computer, at any time, while retaining full data ownership.

QUICK GIS PLATFORM EXPORTS
Bulk export your data into CSV files for easy transfer to other GIS and Asset Management applications.
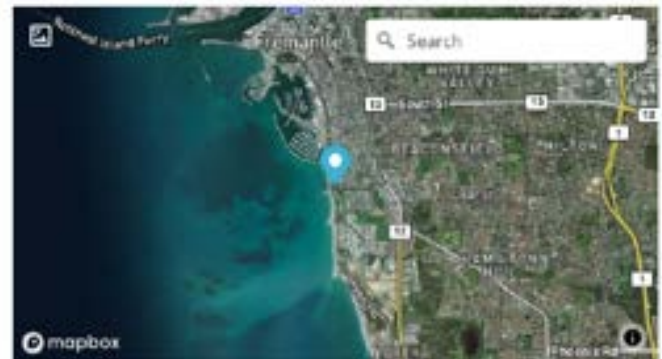
Remote Data Services

Collect → Transmit → Analyse

Opting for Remote Data Services allows your sites to be remotely managed by experienced MetroCount traffic data analysts. Retain full ownership of your data but say goodbye to manually checking sensors and downloading, quality checking and analysing data. We'll do it all for you through a secure sever and send you alerts, raw data or cutomised reports as you choose.

If you prefer to remotely manage your sites yourself, the Remote Access Link allows sensors checks and data download from your desk.

RoadPod® VT

Portable vehicle counter & classifier

The RoadPod® VT system is used in over 120 countries. Renowned for recording up to 4 million vehicle axles with greater than 99% accuracy, it is the best solution for short-term traffic monitoring on the market.

Economical, easy to install & replace, two pneumatic tubes record traffic under a broad range of conditions.

Sensors: Two pneumatic tubes
Memory: Flash, up to 2 million vehicles
Battery life: Up to 4 years
Enclosure: Stainless steel road case
Remote Access Link: Optional

RoadPod® VT4 — Portable 4-tube counter & classifier

VOLUME | SPEED | AXLE-BASED CLASSIFICATION | HEADWAY & TRAFFIC GAP | DIRECTION

The RoadPod® VT4 is the solution for collecting comprehensive and accurate data from multi-lane roads, often used for monitoring highways.

With four tubes, one counter collects two datasets from two lanes, regardless of traffic direction. A combination of VT4s can simultaneously monitor up to eight traffic lanes in all weather and lighting conditions.

Sensors: Four pneumatic tubes
Memory: Flash, up to 4 million axles
Battery life: Up to 2 years
Enclosure: Stainless steel road case
Remote Access Link: Optional

RoadPod® PhaseT   Vehicle behaviour at traffic signals

VOLUME | SPEED | AXLE-BASED CLASSIFICATION | HEADWAY & GAP | LIGHT VIOLATIONS

The RoadPod® PhaseT simultaneously collects traffic data (via tubes) and signal timings (via fibre optic cable) to paint a clear picture of road activity at traffic signals and rail crossings.

The PhaseT is often used to assess reaction times during the warning (amber) phase, to identify potential infringements, or to evaluate the effectiveness of signals. Data collected will highlight safety risks of red and orange light violations and speeding.

Sensors: Two pneumatic tubes and one optical fibre
Memory: Flash, up to 4 million axles
Battery life: Up to 2 years
Remote Access Link: Optional

RoadPod® VP

Permanent piezoelectric counter

VOLUME | SPEED | AXLE-BASED CLASSIFICATION | HEADWAY & TRAFFIC GAP | DIRECTION

The RoadPod® VP offers the highest level of accuracy and detail for a permanent monitoring solution. Designed for multi-lane data collection, the system uses two low profile piezoelectric strips embedded in the pavement.

The RoadPod VP is ideal for identifying seasonal trends, traffic changes over time, and determining adjustment factors for short-term traffic surveys.

Sensors: Two piezoelectric strips
Memory: Flash, up to 4 million axles
Enclosure: Stainless steel cabinet with solar panel
Remote Access Module: Optional

RoadPod® VL — Permanent inductive loop counter

The RoadPod® VL series uses loop sensors to detect vehicles entering and leaving an inductive field. This system can be economically retrofitted to existing sensors.

The VL5810 model provides vehicle volume, class, speed, direction and other traffic-related data.

The VL5805 model is ideal when volume data is sufficient.

Sensors: Two or four inductive loops
Memory: Up to 500,000 classified vehicles
Enclosure: Stainless steel cabinet with solar panel
Remote Access Module: Optional

RoadPod® VM

VOLUME | SPEED | LENGTH-BASED CLASSIFICATION | HEADWAY & TRAFFIC GAP | DIRECTION

RoadPod® VMs work in an array to accurately count vehicles, monitor speeds and classify vehicle type based on the length of each passing vehicle. Gap and headway information is also available and all data is precisely time-stamped.

The RoadPod® VM was designed to be the simplest and fastest traffic sensor to install on sealed roads.

Sensors: Three or four magnetometers
Memory: Up to 500,000 classified vehicles
Remote Access Module: Required
ATLYST: Required

RidePod® BT — Portable bicycle and scooter counter

The RidePod® BT is optimised for detecting bicycle and e-scooter axles with thin-walled pneumatic tubes for increased sensitivity.

In the MTE software included, every axle hit is used to accurately identify individual bicycles in clusters and distinguish bikes and e-scooters from all other traffic. This results in accurate volume, speed and true direction statistics.

Sensors: Two thin-walled pneumatic tubes
Memory: Flash, up to two million bicycles
Remote access: Optional

RidePod® BP
Bicycle, scooter & pedestrian counter

The RidePod® BP is the device of choice for sustainable transport planning. Using two sensitive piezoelectric strips, this system is not affected by weather, light or temperature, ensuring accurate, continuous data gathering.

The sensors simultaneously detect and time-stamp each bicycle or scooter axle hit, accurately classifying even when in clusters. Pedestrian volumes are reliably recorded with analysis occuring afterwards in the MTE sofware.

Sensors: Two piezoelectic strips
Memory: Flash, up to 1 million bikes and e-scooters
Enclosure: Stainless steel cabinet with solar panel
Remote data services: Optional

MetroCount Traffic Executive®

Analysis software

MTE® is recognised as the most advanced traffic analysis software on the market. It securely processes time-stamped data post-collection, allowing for extreme accuracy and flexibility when creating reports.

The software prevents dataset tampering, runs detailed quality checks and offers hundreds of filtering options.

Reporting

- Multi-lane, multi-dataset analysis.
- Detailed data quality checking.
- 30+ built-in global classification schemes.
- Template reports including ADT, vehicle class breakdown, 85th percentile speed, hourly vehicle volumes, peak hour analysis and more.
- Export to Excel, GIS systems and Google Earth.

Hardware management

- Dynamic prediction of battery life.
- Easy counter set up at the roadside.
- Survey setup and mapping features.
- Remote sensor diagnostics and data download.
- Touch-screen support.

Individual Vehicle Report Example

Date YYYY-MM-DD	Time hh:mm:ss	Speed Km/h	Wheebase M	Headway M	Gap M	Axles No.	Groups No.	RHO %	Vehicle Class Visual Representation
2018-05-20	13:16:01	84.44	13.88	28.6	28.5	6	3	1.00	ART6 o oo ooo
2018-05-20	13:16:03	78.95	2.67	1.9	1.3	2	2	1.00	SV o o
2018-05-20	13:16:05	80.51	2.52	2.3	2.2	2	2	1.00	SV o o
2018-05-20	13:16:35	71.94	19.79	19.9	19.8	6	5	1.00	ART6 o o oo o o

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