MetroCount

Traffic Data Specialists

Traffic Survey Systems

Advanced Traffic Data Capture and Analysis

Contra Tor



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Traffic Data Specialists

Providing Solutions World Wide

Over the past 25 years, MetroCount has worked closely with road authorities and traffic managers around the world to achieve safer, more efficient traffic networks. With MetroCount products now in over 115 countries globally, MetroCount takes pride in meeting the needs of our customers with tailored solutions and exceptional customer service.

Contact one of the MetroCount regional offices for a detailed product demonstration or online guided tour of our advanced traffic analysis software.

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Overview of MetroCount products and solutions



MetroCount Traffic Executive®

Since MetroCount was founded in 1987, the same team of engineers have developed and improved the most advanced traffic analysis software - the MetroCount Traffic Executive[®] (MTE).

Individual Vehicle Data

Accurate individual vehicle information is at the foundation of all MetroCount reports. MTE provides incredible detail about every vehicle that allows for highly flexible reporting summaries.

Vehicle Classification

Classification of vehicles is critical to accurately monitoring road degradation, predicting road life span and identifying trends. MTE has advanced algorithms to classify vehicles in a large range of international standard schemes. Vehicle classification is applied post-survey providing the flexibility to analyse data with varied schemes.

Detailed Speed Analysis

Referencing speed against time, class, volume and separation, highlights how a road is performing in a range of conditions. MTE provides inclusion/ exclusion filters including headway filters to determine accurate 85th percentile speeds on congested roads.

Unparralleled Error Detection

Prior to MetroCount, traffic monitoring was often regarded as an inexact science. With thorough error checking on every vehicle detection, MTE provides a high degree of accountability in its interpretation.

Automate With Batch Scripting

MTE includes functionality to automate the analysis of multiple datasets. Compile standardised reports in a single script and simply run them on all future traffic surveys for simple, consistent traffic analysis.

Managing Traffic Survey Networks

MTE incorporates survey management features to ensure the network is properly covered with routinely monitored sites. The *Site Lists* tool ensures surveys are carried out at GPS coordinates consistent with naming conventions. In addition, it facilitates the export of survey locations to Google Maps and Google Earth.

Backward Compatibility

With the principle of post-survey analysis, MTE's depth of analysis has grown around the original file format. 20 years on, the latest version of MTE can still analyse data sets recorded in the 1990's.



Features

Reporting

- Advanced reporting of traffic representations based on accurate classification data.
- Extensive graphical reports with numerous permutations of class, speed, volume and time based plots.
- Metric and non-metric units.
- Multi-lane, multi-data set analysis.
- Count-only features to sum
 vehicles by axles or gaps.
- Detailed data quality analysis with *Trigger Spectrum* and noise analysis.
- Custom template creation.
- Time bars to view dataset range.
- Compass direction and lane number in the Individual Report.
- Time filter auto-wrap to align data to calendar months.
- Available in 7 languages



Hardware Management

- Sitelist for managing locations with a simple setup.
- Advanced site list searching and mapping features.
- Power-up: dynamic visualisation of battery life, based on individual usage patterns.
- Remote site scheduling, sensor diagnostics and data download.
- Touch-screen support.

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Flow stacked by speed reporting highlights variation in vehicle speeds during different flow conditions.

ClassMatrix-846 Site: Description: Filter time: Scheme: Filter:	3529 GRT 13:0 Vehi Cls(1	01.0.0N NORTHE 0 Monday icle classifi 1 2 3 4 5 6	RN HWY 20 Septe cation (AF 7 8 9 10 1	SOUTH 0 mber 199 X) 1 12) Dir	9F WEST 3 => 14:2 (NESW) S	SWAN RE 4 Monday Sp(5,140)	0 <90km/l v 27 Septe Headway	h> ember 19 (>0) Span	93 (0 - 100)					
Speed (mph)					c	lass							Speed	Totals
	MC	sv	SVT	TB2	TB3	т4	ART3	ART4	ART5	ART6	BD	DRT		
	1	2	3	4	5	6	7	8	9	10	11	12		
0 - 5													0	0.0%
5 - 10	1	8			1	1						· ·	11	0.0%
10 - 15	1	25		1						2		· 1	29	0.1%
15 - 20	13	67	9	7	4	5	2	1	2	1	1	.	112	0.5%
20 - 25	14	54	4	8	4	3			1		2	.	90	0.4%
25 - 30	3	67	9	5	2	1		1			1	.	89	0.48
30 - 35	1	98	8	4	3	2		1	4	6	2	3	132	0.6%
35 - 40	11	300	33	27	9	3	1	3	9	10	10	1	417	1.8%
40 - 45	27	1184	89	122	34	21	6	24	30	78	53	2	1670	7.0%
45 - 50	33	4014	335	358	107	116	20	48	91	218	168	1	5509	23.3%
50 - 55	53	7068	392	458	128	106	35	68	104	289	205	2	8908	37.6%
55 - 60	50	4117	173	184	53	21	14	25	34	110	88	1	4870	20.6%
60 - 65	25	1221	45	46	16	1	4	1	3	17	3	·	1382	5.8%
65 - 70	14	295	5	10	1	-	1	1				·	327	1.48
70 - 75	4	104		2								·	110	0.5%
75 - 80	1	23		2		-						·	26	0.1%
80 - 85		4										·	4	0.0%
85 - 90		3				-						·	3	0.0%
90 - 95	1	1										·	2	0.0%
95 - 100		1										·	1	0.0%
Class Totals	252	18654	1102	1234	362	280	83	173	278	731	533	10	23692	

Presenting classification in the context of speeds provides a simple method to identify class specific speeding issues.





Sample Reports

Portable Vehicle Monitoring

etroCount has a long-held global reputation as the benchmark for accurate traffic survey technologies. Accurate traffic data is critical for a clear understanding of road conditions.

The RoadPod® VT pneumatic tube classifier is one of the most widely used traffic survey units globally and has been regularly scrutinised by independent scientific studies. Uptake of the RoadPod® VT has increased in recent years as traffic engineers make use of the advanced analytics to improve understanding of road conditions and guide maintenance and upgrade schedules. Axle based data enables filtering of parameters like time, speed, direction and classification. Regular portable traffic surveys provide a verifiable history of road use over time.

Common use-cases include:

- Average Daily Traffic (ADT) reports, weekly vehicle counts.
- Hourly vehicle volumes to determine periods of congestion.
- 85th Percentile speed to determine the operating speed of a road.
- Exceeding speed limit statistics by time of day to target enforcement and education efforts.
- Vehicle class breakdown to plan future upgrades to roads based on loads.
- Traffic characteristics related to driver behaviour such as saturation flow rates and headway.

The driving force behind the widespread uptake of the RoadPod[®] VT is the simplicity with which operators can undertake an accurate and detailed traffic survey.



A bidirectional short term monitoring site with the RoadPod VT.

C The MetroCount system has a number of standout features including long life battery, adjustable lockout feature, multiple site data input and the ability to determine a wide range of data aspects through the software.

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Rolanda Ramanavichius, Engineer - Road and Transport Research Institute - Kaunas



Reliability And Accuracy

The most effective and accurate method for temporary traffic counting is detecting axles with pneumatic tubes. Rubber tubes are economical, easy to install and replace, reliable, and record consistently under a broad range of conditions.

Up To 4 Years Battery Life

RoadPod VT is the first MetroCount unit to operate in *Zombie Mode*. This keeps the counter completely inert between passing vehicles, drawing one fifth the power required by the previous 5600 model, while using the same alkaline battery pack. The *Time-up* feature in the latest MTE software (v5 onwards) provides a dynamic projection of battery life, based on specific patterns of counter usage.

Store 4 Million Axles

Vast memory capacity enables this tube counter to store up to 1 million vehicles, supporting up to four times longer surveys than previously possible.

Designed For Simple Operation

Units are maintenance free, with auto-ranging sensors and highly accurate internal clocks.

Post-purchase Upgrades

Each RoadPod VT has a unique digital Signature embedded in its firmware. The Signature enables different levels of software support, from simple volume counts through to complex statistical analyses. Signatures can be upgraded postpurchase to extend capabilities.

Remote Access with FieldPod®

RoadPod[®] + FieldPod[®]

The RoadPod VT can be amplified by the FieldPod remore access add-on. Through the mobile network, FieldPod enables data download, sensor checks and site diagnostics.

Combining RoadPod VT with FieldPod provides access to the latest data at the click of a button.

Enclosure Options

Additional hardware is required to enable FieldPod, including a remote access module, an antenna and extra battery. MetroCount offers enclosure options and supplies components for customised solutions.







MetroCount supports a range of enclosure options enabling remote access in a variety of RoadPod[®] VT applications.







Portable counters are easy to setup and relocate.



Accessories included in the RoadPod[®] VT field kit.

RoadPod® VT 5900 Hardware Specifications

Sensors: Pneumatic tubes Tube spacing: 80-120 cm (100cm by default) Internal battery: 6V 18Ah, 4 D alkaline cells Memory: Up to 4 million axles Memory type: Flash Time resolution: Better than 0.688ms Enclosure: Dual system with stainless steel road case and PVC internal unit Dimensions: 350mm x 124mm x 95mm Total weight: 4.13kg Included: MTE software, operating manual Required accessories: Traffic survey field kit, data communications cable Add-ons: Remote Access Module







A Clear Picture Of Signalised Traffic

Monitoring traffic at signal controlled intersections and level crossings provides critical information regarding driver behaviour. The MetroCount RoadPod[®] PhaseT is a unique approach to collecting detailed traffic data, synchronised with intersection signal timings. The PhaseT is a descendant of our industry standard, the RoadPod VT. It has an additional optical fibre interface to detect and record changing signal phases in parallel with traffic data.

Look Beyond Crash Data

Relying only on existing crash data to analyse driver behaviour at intersections provides no mechanism to identify potential issues before an accident occurs. By monitoring all driver behaviour at a signalised intersection, preventative action can be taken based on empirical evidence, without having to wait for the crash statistics to accumulate.

Customise Signal Phases in MTE

MTE allows users to use common signal phases or define their own *Phase Map*. Signal phases for traffic lights are synchronised with the traffic data.

Common Use Examples:

Pairing traffic data with traffic signals has a number of implications in traffic management and enforcement.

- Isolating volume and speed during the yellow or warning phase of traffic lights to assess driver reaction times and inform signal timing.
- Analysis of driver behaviour at intersections to direct intersection design and modification.
- Classification of vehicles crossing intersections during different phases identify potential infringements.
- Monitor rail crossing volume during the stop phase of the traffic signals to assess effectiveness of signals.



The RoadPod[®] PhaseT records synchronised traffic data and signal phases using pneumatic tubes and fibre optics.



Traffic Light Phase Statistics Example

Phase = Yellow

Vehicles = 4310 (4.93%) Exceeding Speed Limit = 3386 (78.56%) Maximum = 132.4 km/h 85% Speed = 77.46 km/h, 95% Speed = 84.86 km/h

Phase = \mathbf{Red}

Vehicles = 437 (0.50%) Exceeding Speed Limit = 348 (79.63%) Maximum = 129.0 km/h 85% Speed = 84.29 km/h,

Phase = Green

Vehicles = 82715 (94.57%) Exceeding Speed Limit = 21712 (26.25%) Maximum = 159.7 km/h 85% Speed = 68.15 km/h

Sample phase analysis of traffic lights.



Speed analysis shows the rise in speed prior to lights turning red.

RoadPod[®] PhaseT 5712 Hardware Specifications

Sensors: Pneumatic tubes (road traffic), optical fibre (traffic signals) Tube spacing: 80-120 cm (100cm by default) Internal battery: 6V 18Ah, 4 D alkaline cells Memory: Up to 1 million axles Time resolution: Better than 1ms Enclosure: Dual system with stainless steel road case and PVC internal unit Included: MTE software, operating manual Required: Traffic survey field kit, data communications cable, optical fibre interface, optical fibre



The RoadPod[®] PhaseT detects a double road-train through a green light.





Permanent Vehicle Monitoring

ong term, continuous traffic studies provide pertinent information and trends to assist in planning new road works, upgrades and maintenance as well as assisting traffic management plans. Year-on-year data can identify traffic growth patterns and seasonal road trends.

MetroCount permanent survey sites are often installed on major arterial roads or roads of strategic interest. They can be automated to transmit traffic information remotely at regular intervals. MetroCount Permanent sites provide the same format of traffic data as all other MetroCount products with full analysis compatibility.

Congestion statistics can be analysed and compared with historical data to provide traffic engineers with peak road usage data over time. Increased understanding of the influencing factors to periods of congestion can assist with effective traffic management. Additionally, permanent traffic sites provide a sound reference for quality assurance and extrapolation of temporary studies undertaken with the RoadPod[®] VT. A reliable permanent dataset can be used as a benchmark to verify the accuracy and validity of temporary surveys.

Common use cases include:

- True AADT (Annual Average Daily Traffic) figures from 52 weeks of data.
- Weekday flow reports to identify congestion periods and peak road operating conditions.
- 85th Percentile speed to determine the operating speed of a road.
- Exceeding speed limit statistics by time of day to target enforcement and education efforts.
- Vehicle class breakdown to plan future upgrades to roads based on loads.
- Traffic characteristics related to driver behaviour such as saturation flow rates and headway.

The best decisions in traffic engineering and planning are based on continuous, year-round data.



MetroCount equipment follows a modular design to suit varying road configurations.

Being able to clearly identify seasonal trends and when a road is operating above its capacity are imperatives. Mr Paul Edwards, Traffic & Design Coordinator, City of South Perth

"

Start Margaret



Meaningful Traffic Data

Using MetroCount's pioneered monitoring approach, the RoadPod[®] VP stores every axle that passes over its sensors. The great sensitivity of the piezoelectric sensors, installed to perfection, ensure the highest level of accuracy in capturing vehicle volume, speed and classification.

Multi-lane Applications

Designed to monitor multi-lane roadways, each RoadPodVP connects to four piezo strips. This enables one unit to simultaneously record traffic on two lanes. In multilane sites, data from each unit can be effortlessly combined to report totals or per lane with all the same filters available.

Low Profile Integration

Permanently embedded in the pavement, piezoelectric strips are a discreet, non-obtrusive solution to permanently monitor traffic. MetroCount's proprietary installation techniques ensure maximum longevity.

RoadPod[®] + FieldPod[®]

The FieldPod system is an ongoing, end-to-end solution to traffic data management. With FieldPod, MetroCount can provide remote data downloads, hardware checks and traffic data analysis and reporting on a regular basis. FieldPod services can be customised to suit client requirements.

MC Piezo Test

Detailed Summary Of Piezo Systems

The MC Piezo Test is the only unit of its kind in the world, providing detailed diagnostic on piezoelectric installations. The unit allows road managers to accurately calibrate any piezo sensors, including those used by WIM systems and speed cameras. Designed to evaluate and record information from sensors post-installation, the MC Piezo Test provides detailed analysis of voltage offset, electrical noise, leakage and capacitance. This information is used to validate the installation and confirm the high degree of accuracy and compliance with contractual technical specifications.



The MC Piezo Test is the world leading technology for characterising and verifying piezo sensors.





The RoadPod VP detects motorbikes through to road-trains.



Modular design allows recording of multi-lane roads.

The RoadPod VP records accurately even in heavy traffic.

RoadPod® VP 5710 Hardware Specifications

Sensors: Piezoelectric strips Sensor spacing: 80 - 200cm Battery: Internal - 6V 18Ah, 4 D alkaline cells External - 12V ongoing solar panel charging Internal battery life: 180 days of continuous use or 5 years as backup for external battery

Enclosure: Stainless steel mounted cabinet Included: MTE software, operating manual Required: Data communications cable Add-ons: Remote Access Module

Weatherproof cabinet featuring 3G antenna and solar panel.

Well Established Sensors

The MetroCount RoadPod® VL utilises inductive loop sensors to detect when vehicles enter and exit the inductive field. Contractors familiar with traffic signal sensors will find the installation straightforward. Diagnostic tools *LoopScope* & *LoopMonitor* come bundled with MTE and offer full sensor performance analysis. These tools can be used to assess existing loops for retrofitting the RoadPod VL along with validating new installs and ensuring data quality prior to a survey.

The Permanent Solution

The RoadPod VL has an internal battery that supports ongoing data collection for up to 6 months. An additional solar panel enables the system to be used for long-term data collection.

RoadPod[®] + FieldPod[®]

The RoadPod VL can be amplified by the FieldPod remore access add-on. Through the mobile network, FieldPod enables data download, sensor checks and site diagnostics. Subscibers can also choose to receive customised reports regularly. You can opt for FieldPod anytime during or after purchasing the RoadPod VL.

RoadPod VL5810

Length-based classification

Using two loops per lane, the VL5810 provides data on class, volume, speed, direction and traffic gap. The VL5810 detects and time-stamps when a vehicle enters anwd then when it leaves an inductive field, rather than recording axles, resulting in a length-based classification of vehicles. To interpret this data, MTE provides standard length based schemes and the option to create new ones.

RoadPod VL5805

Four lanes of binned data

The VL5805 is designed for projects where only volume information is required, with a single loop per lane. By recording binned counts, the unit supports up to 4 years of data memory. The MTE software enables fully configurable bin sizes, thresholds and lockout times.

Car Park and toll gate volumes

With variable loop shape and size, RoadPod VL5805 can identify and record vehicles travelling at low speeds or where lane discipline is poor.

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

	Diagnostic		Function			
stic	LoopScope	Provides feedback on the properties and condition of loops.				
Diagno Tools	LoopMonitor	Tests connections, including screw and crimp terminals.				
1						
e 'erage	Model		Number Of Lanes			
	VL5810		4 Loops / 2 Lanes			
Lan Cov	VL5805		4 Loops/ 4 Lanes			

Counter, breakout board and modem in cabinet.

Installation of inductive loops to MetroCount specifications.

RoadPod® VL 5800 Hardware Specifications

Sensor type: Inductive loops **Optimum Loop Size:** 2m x 2m Optimum Loop Spacing: 5m Loop Inductance Range: 50 - 500µH (150µH optimum) Loop Oscillator Range: 45 - 65kHz Battery: Internal - 6V 18Ah, 4 D alkaline cells. Cabinet - 12V rechargeable battery for ongoing solar panel charging **Time resolution:** Better than 1ms Enclosure: Mounted cabinet **Included:** MTE software, operating manual Required accessories: Breakout board, data communications cable **Optional accessories:** DIN rail mounts Add-ons: Remote Access Module

A freshly installed VL5810 on a low volume road.

Bike + People Monitoring

The benefits of active transport in cities are well established. The pressing task for transport managers is to apply this knowledge to achieve better infrastructure and increase participation. Monitoring bike and pedestrian traffic is core to effective cost benefit analysis when seeking funding and planning new works or upgrades. Year-on-year data helps to analyse growth patterns and the impact of new infrastructure.

MetroCount's axle detection technology has been proven to detect bikes with an accuracy better than 99% in normal flow conditions. Independently verified, our bike survey systems provide precise volumes and information for each bike, including speed, direction, headway and length. The high degree of certainty in bike detection allowed our engineers to develop a reliable and consistent method of recording pedestrian volumes.

Experience And Reliability

With over 10 years of development behind our bicycle monitoring equipment, MetroCount bike counters are known for reliability and quality. With thousands of bike counters currently in the field, monitoring cyclists 24 hours a day, MetroCount is leading the industry in detailed bike traffic information.

Working With The Best

The Netherlands is globally revered for their integrated transport network. Enviable bike usage statistics highlight the impact of targeted planning for bikes. With an office in Rotterdam, our engineers utilise data from a range of Dutch sites to improve detection accuracy in the various road conditions and scenarios. By constantly refining our algorithms, we have become the global benchmark for accurate bike statistics.

Modelling bicycle traffic is at the heart of effective cost benefit analysis to justify improved cycle infrastructure and increase funding.

With unmatched accuracy, the RidePod[®] BT provides a portable solution to collect data from sites across a network.

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With continual commitment and investment in promoting, facilitating and encouraging cycling within the Borough, monitoring cycling journey traffic is essential. As a result the permanent bike counters we have located across the borough pay for themselves. Nick Davies, Principal Transport Officer - London Borough of Barking and Dagenham

RidePod[®] BT Bike Tube Counter

Optimised For Bicycle Detection

The RidePod® BT use the core technology of the RidePod VT, but has been adapted to monitoring on dedicated bike paths and on-road bike lanes. With thin-walled pneumatic tubes and overall increased sensor sensitivity (assuring bike axles are detected) and MTE's proprietary algorithms, the RidePod BT achieves unmatched accuracy in bike data interpretation.

Store 4 Million Axles

Improved memory capacity enables the RidePod BT to store up to 1 million bikes, allowing longer traffic studies. In low traffic conditions, the RidePod BT can be used for semi-permanent applications.

Up To 4 Years Battery Life

The RidePod BT will record bikes for around 4 years without a battery change. Alkaline battery packs are easily user replaceable. Remaining battery life is projected in the MTE[®] software to ensure that necessary changes can be made pre-survey.

Recording capacity

Bicycle volume / day	Capacity (days)
16,000	120
8,000	240
4,000	480
2,000	960

Remote Access with FieldPod®

RidePod[®] + FieldPod[®]

The RidePod BT can be amplified by the FieldPod remore access add-on. Through the mobile network, FieldPod enables data download, sensor checks and site diagnostics. Subscibers can also choose to receive customised reports regularly.

Combining RoadPod BT with FieldPod provides access to the latest data at the click of a button.

Enclosure Options

Additional hardware is required to enable FieldPod, including a remote access module, an antenna and extra battery. MetroCount offers enclosure options and supplies components for customised solutions.

The RidePod® BT can be extended with FieldPod® remote access in a range of customisable enclosures like the pictured Pelican case.

www.metrocount.com

Installation of RidePod[®] BT is simple and quick.

RidePod[®] BT recording bikes on a dedicated bike path.

RidePod® BT 5926 Hardware Specifications

Sensor type: Thin-walled, pneumatic tubes Memory: Up to 4 million axles Memory type: Flash Internal battery: 6V 18Ah, 4 D alkaline cell Time resolution: Better than 0.688ms Enclosure: Dual system with stainless steel road case and internal unit Dimensions: Stainless steel road case – 350mm x 124mm x 95mm Total weight: ~4.13kg Included: MTE® v5.x software Required accessories: Traffic survey field kit, data communications cable Add-ons: Remote Access Module

RidePod® BP Bike + People Piezo Counter

High Sensitivity Detection

Our engineers have applied their expertise in piezoelectric sensor technology to develop the world's first bike and people counter.

Two piezoelectric sensors embedded in the pavement are connected to the RidePod BP counter to record both bicycle axles and pedestrian footfalls. With advanced bicycle axle detection algorithms, the system identifies bike traffic and processes non-bike recordings to produce a reliable and consistent pedestrian count.

Discreet Cabinet

Completely weatherproof, the MetroCount cabinet includes a solar panel and 3G modem, providing continuous power and remote data connection.

True Bike Direction

Data collected with the RidePod BP records the direction of travel, regardless of the position of a bike on the path. This information is useful to assess commuter periods and cyclist behaviour.

Bike Speed Information

Monitoring bike speeds and headway can reveal

potential hazards on bike paths. Virtual week reports can provide insight into conditions during peak and off-peak hours.

Count Bikes In A Cluster

With cyclists often traveling in clusters, the MetroCount Traffic Executive software can effectively distinguish bicycle groupings to present cyclists travelling in a cluster.

Pedestrian Volumes

RidePod BP datasets can be analysed to view pedestrian counts over any time frame. Combined with bike analysis, RidePod BP is a powerful tool for monitoring sustainable transport initiatives.

RidePod BP + FieldPod®

FieldPod subscribers are provided with data digitally on a regular schedule. Along with managing data download and site diagnostics, MetroCount offer customised reporting services with FieldPod.

Metrocount Specialists

Our in-house bike specialists can manage the entire process from site selection and counter installation to data delivery and analysis assistance.

RidePod[®] BP counts both bikes and people, providing bike direction even when bikes travel on the wrong side.

Equipment is protected in the weather proof cabinet.

RidePod[®] BP in the MetroCount cabinet, installed on a shared path to record bikes and people.

acity	Bicycle flow/day	Capacity (days)
Cap	4,000	120
) gu	2,000	240
ordi	1,000	480
č Seč	500	960

RidePod[®] BP 5720 Hardware Specifications

Sensor type: Piezoelectric strip Internal battery: 6V 18Ah, 4 D alkaline cells Internal battery life: 180 days continuous use or 5 years as backup for external battery External battery: 12V rechargeable battery for ongoing solar panel charging Enclosure: Mounted cabinet Included: MTE® software, operating manual Required accessories: Data communications cable Add-ons: Remote Access Module

VicRoads record bikes at around 40 sites both on and off road with the RidePod[®] BP.

Remote Access Traffic Data Services

ransmission of data over the cellular network has enabled improved processes for monitoring and analysing traffic information remotely. Remote connection to traffic data sites provides the convenience of online data download and site health checks, removing the need to travel to sites on a regular basis.

FieldPod[®] adds the benefits of remote communication to both temporary and permanent MetroCount technologies. Developed to improve traffic data collection processes, FieldPod is the result of continued engagement and collaboration with traffic professionals around the world.

Metrocount Managed For Reliability

FieldPod is a flexible service depending on organisational requirements and policies. MetroCount can optionally provide fully managed traffic data services, including all site selection and installation, hardware monitoring, data delivery and quality control, and reporting.

Built-In Redundancy For Continuity

The modularity of the FieldPod systems enables an unmatched level of data recording redundancy. In the event of network or internal battery failures, sites will continue to record traffic data to the counter. Reliable fail-safe systems allow road managers to schedule repairs without data loss.

Energy Efficient + Low Maintenance

Employing the same emphasis on low power consumption that has made MetroCount traffic counters so popular, FieldPod is engineered to operate long-term without mains power. Coupling counters with a solar panel and high capacity battery, FieldPod sites can run continuously. Low power solutions reduce maintenance costs.

Secure Data Delivery

FieldPod traffic data is securely recorded, stored and transmitted in the MetroCount encryption format that can only be read by the MTE software. Traffic data transmitted to the end user at routine intervals based on a predefined schedule.

Spend Less And Monitor More

FieldPod[®] plans are catered to an organisation's needs, reducing initial outlay for equipment and spreading the cost of surveys over a longer time period to make traffic survey budgeting more predictable in the long-term.

Proven Stability And Compatibility

FieldPod[®] is a mature, stable, and secure platform that offers reliable and adaptable data services. To respond to specific tender needs, MetroCount can customise the delivery mechanisms and provide assistance for organisations to build robust traffic data systems.

Collect

FieldPod® Technical Details

Mobile Network Accessibility

FieldPod[®] infrastructure requires mobile phone coverage. MetroCount provides SIM cards to manage the connection across the network.

Compatible With All Sensors

The Remote Access Module can be added to all current MetroCount monitoring systems anytime during or after purchase. If required, FieldPod sites can be monitored manually to perform regular site diagnostics and downloads.

Manage Sites In MTE®

Like all MetroCount products, FieldPod[®] is operated within our MTE software. Remote access allows operation of road side units in the same manner as a direct connection. Check data quality, unload data, monitor voltage and check the counter's status all without leaving the office.

Data Scheduling

Operators can schedule data to be delivered weekly, monthly or on a custom schedule, with files delivered via email or direct FTP. For an end-to-end solution, MetroCount can automate the delivery of customised reports. Alternatively, users can access sites and download data autonomously.

The Remote Access Module enables two way communication between traffic sites and MTE[®]*.*

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With remote access our traffic data simply lands in my email box, it couldn't be easier. Nick Davies, Principal Transport Officer - London Borough of Barking and Dagenham

MetroCount Product Guide

RoadPod[®] VT

Portable traffic counter with rubber tubes. Designed for short-term road traffic surveys with a wide network coverage.

RoadPod[®] PhaseT

This counter is attached to traffic lights or rail crossings, using rubber tubes and optical fibre to sync road data with traffic phases.

RoadPod[®] VP

Permanent road surveys 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. **Model 5810:** Classification with speed and volume. **Model 5805:** Binned traffic volumes.

RidePod® BT

Portable bike counter with rubber tubes. Designed for short-term traffic surveys with a wide network coverage.

RidePod[®] BP

Permanent bike + people surveys with embedded piezoelectric sensors. Ideal for long-term trend analysis.

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The bond between MetroCount and their clients is based on friendship. The MetroCount team is knowledgeable and nothing is too much trouble. Clive Wilderspin, Traffic Survey Contractor – U.K.

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