

Traffic Monitor



- High Specification Outstation
- Advanced Low Power Detectors
- Profiling Classification
- Low/Solar Powered
- GSM Telemetry
- GPRS Ready
- Congestion Alerts
- Flash Upgradeable
- CA Traffic Software Compatible
- 2 Year Warranty



LOOP DETECTION

"Traffic Monitor" utilises our industry recognised low-power vehicle detection technology used in over 5,000 UK locations and provides enhanced functionality to a standard traffic monitoring outstation.

The advanced profiling detectors allow for sophisticated classification from loops as well as industry leading speed accuracy. The optional piezo inputs also allow for more detailed class analysis.

The unit is a plug in replacement for existing CA Traffic classification units. The extra features available in the Traffic Monitor can be added to existing sites simply by replacing the unit. An upgrade path is available for existing Profilers.

FEATURES

Autonomously operating from a cabinet with a discretely mounted solar panel the unit can provide 24/7 data with conditional alerts for congestion situations.

When running in GPRS mode the unit sends the latest data at the end of each period, to the operators network. The information populates VDA-Pro's database for data storage and historical analyses.

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The data stream from all the locations can also be used by other systems as a source of information or it can be displayed directly on a web site to make local congestion information available to the public.

A flexible approach has been made to suit the user requirements in terms of data transmission. GSM communications and SMS alerts are available utilising the widespread and reliable GSM network and as a fallback for the GPRS network.

CONGESTION/CONTROL ALERTS

A GPRS packet or a SMS message is sent by the system when user definable conditions, like congestion, are met by the traffic at that location.

The Traffic Monitor also sends status messages if it encounters a problem with any part of the system. A GSM module is used at the in-station in conjunction with the free SMS handling software to manage and report on the incoming messages.

Congestion alerts are added to the current information file resulting in the current road network status being more responsive to problems than the interval set for streaming data.

TM CABINET

The increased power demands of Real Time Congestion monitoring can mean the use of a much larger solar panel. The TM Cabinet can provide the required power with its large solar panel. The panel is mounted on top of the cabinet so it is less obvious to road users and, hence, less vulnerable than a pole mounted solar panel.

Our TM Cabinet provides the additional power required in a standard roadside cabinet configuration. The TM Solar Panel can, in maximum sunlight conditions, provide up to 1 Amp current output. Due to the Traffic Monitor's low-power demands the TM Cabinet is only needed when frequent, continuous, Real Time traffic data is required.

The TM Cabinet is not required for GSM/SMS communications or where GPRS packet frequency is >15 minutes.

REMOTE UPGRADES

Having the ability to continually enhance equipment performance without costly downtime and hardware modifications is one of the major advantages of the Traffic Monitor.

The unit is flash upgradeable and can be programmed remotely by telemetry with the latest firmware enhancements when they are made available.



DATA COLLECTION

The unit comes with 4MB of memory which is enough to record 250,000 individual vehicles if the unit is operating in Vehicle-by-Vehicle mode.

The Vehicle-by-Vehicle mode records information on time of arrival, vehicle speed, vehicle length, vehicle class, chassis characteristics, gap from previous vehicle and headway from previous vehicle.

DATA PROCESSING

VDA 2 and VDA-Pro, CA Traffic's market leading data processing and management systems fully support all outputs from the Traffic Monitor. Please contact us for information on conversion into other programs.

TECHNICAL SPECIFICATION

Power	6 Volt	Speed Range	1-250 Mph (2 - 250 Kph)
Communications	GPRS/GSM/SMS	Detection Method	Loop Profiling
Accuracy (Class) [#]	>99% (95%)	Recording Intervals	1, 5, 15, 30, 60 Minutes
Accuracy (Speed) [#]	+/- 2% (95%)	Memory Size	4MB

[#] Figures based on a site located following CA Traffic's guidelines.

The company reserves the right to alter any of the company's products or published technical data relating thereto at any time without notice.



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