Description

RTMS WATER (Wide Area Traffic Event Reporting) provides real-time traffic measurement and data collection over a wide area. An enterprise-level system capable of monitoring traffic networks from many locations. Traffic is measured by multiple sidefired RTMS data collection stations in a specific area. Data is then typically sent by external CDMA/GPRS modem or concentrated by a Wireless Cluster Hub and cost-effectively transmitted to a Traffic Operations Center (TOC) for storage in a real-time SQL database.

The affordable WATER system is not only unparalleled for reliability and accuracy in all weather conditions and for large scale projects, it is also quick to install with no lane closures and no ongoing maintenance required. Suitable for both highway and urban traffic management applications.

Specifications:

Detection Stations

- Pole-mounted, using existing road-side poles.
- Includes side-fired RTMS and either GPRS modem, DSS RF modem or TCP/IP interface
- Power: typically 4 Watt surge-protected AC or DC
- Ideal for solar or UPS power
- Installation time: typically 1 hour
- Measurement on up to 12 lanes with all-weather high accuracy

Features

- Speedy installation on existing structures with no traffic disruptions
- Exceptional reliability with no maintenance required
- Low life-cycle cost
- No scheduled maintenance required
- Supports public or private wireless networks
- Low installation cost due to use of existing poles, ability to run on solar/battery power and use of RF modems

Applications

- Corridor traffic management
- ATIS (Advanced Traveler Information Systems) and online speed maps
- ATMS and incident detection
- Traffic counting and monitoring
- Travel time information
- Quasi-adaptive signal control

Benefits

- Accurate measurements of Volume, Occupancy, Classification and Speed on 12 separate lanes per station
- AC, battery or solar power options
- Unmatched flexibility: a relocatable and scaleable system that expands by adding stations
- DSS Wireless Cluster Hubs, serial, cellular and TCP/IP communications mean a simplified, affordable network
- Real-time TOC/SQL database stores data and network sensor configuration from many RTMS traffic measurement stations
- Mixed communications environment: RF, serial, and TCP/IP
- Simple TOC software for SQL database interface, configuration and diagnosis as well as speed map and travel time information
- Supports multiple protocols
Private Network Cluster Hubs Option
- Collect data from up to 30 Wireless Detection Stations within 15 km line-of-sight radius, eliminating last-mile connection
- Power: typically 2 Watt surge-protected AC or DC
- Store or Forward modes of operation
- Communicate with Traffic Operations Center via RF modem, TCP/IP or leased-line modems

Traffic Operations Center
- MS-Windows based software collects real-time data from thousands of stations
- User-friendly software stores files in real-time and/or archival SQL database
- Fail-safe data archiving
- Easy testing of the entire system from the TOC computer
- Supports TCP/IP and multi-port serial connections
- Optional speed-map, travel time modules