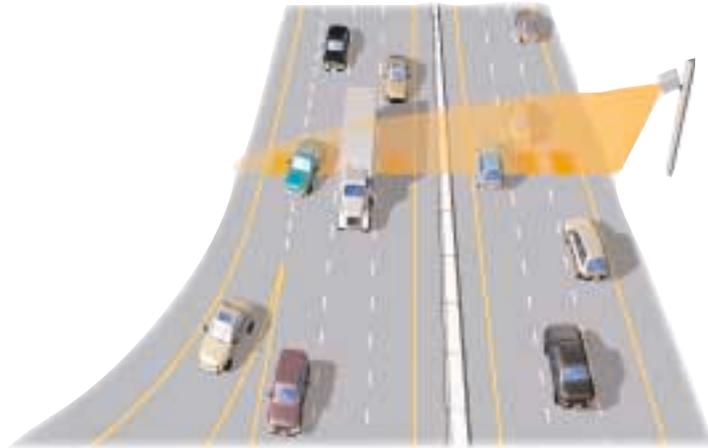


The Simple Solution to **TRAFFIC DETECTION**

RTMS Remote Traffic Microwave Sensor A Multi-zone, True-presence Microwave Radar



Freeway Operations



- ◆ Provides presence indication and accurate measurements of Volume, Occupancy and Speed in up to 8 separate zones (lanes) up to 60m (200 ft.) away
- ◆ True-Presence: Detects stationary, congested and fast moving vehicles
- ◆ Unaffected by any weather conditions
- ◆ Quick, simple and safe installation on low roadside poles without traffic disruptions
- ◆ Flexible:
 - Fits any road type and pole type
 - AC, Battery or Solar power options
 - Various outputs and communications options
- ◆ Fully programmable to support many applications:
 - Actuated signals control
 - Freeway Operations
 - Traffic Counting
 - Enforcement
- ◆ Low life-cycle cost:
 - High reliability
 - No maintenance required



Actuated Signal Control

EXCELLENCE • INTEGRITY • SUPPORT



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The Remote Traffic Microwave Sensor is a low-cost advanced sensor for the detection and measurement of traffic at intersections and on roadways.

This single compact true-presence detector provides per-lane presence indication, as well as Volume, Occupancy, Vehicle Speed and Classification information, simultaneously in up to eight lanes or detection zones.

Output information is provided to existing controllers by contact closure and to other systems by its serial communications bus. A single RTMS can replace multiple inductive loop detectors and the attendant controller.

The RTMS is a tiny radar operating in the microwave band. Mounted on road-side poles, it is easy and safe to install and remove without traffic disruptions or lane closures. It is fully programmable to support a variety of applications, using simple intuitive software running on a Notebook PC.

APPLICATIONS

- Multi-lane intersection control, stop-bar and advanced loop replacement
- Freeway traffic management and incident detection systems
- Ramp metering
- Off-ramp Queue control and signal control actuation
- Work zone and temporary intersection control
- Permanent and Mobile Traffic Counting Stations
- Enforcement of Speed and Red-Light violation

PRODUCT SPECIFICATIONS

Area coverage

The RTMS field of view covers the area defined by:

ELEVATION ANGLE	45 degrees
AZIMUTH	15 degrees
RANGE	3 to 60 meters (10 - 200 ft.)

Measurement resolution

DETECTION ZONES	up to 8 zones
RANGE (ZONE LENGTH)	2 metres (7 ft.)
ZONE WIDTH	2 to 7 metres (7 to 20 ft.)
TIME EVENTS	10 mSec

Power requirement

12 - 24 Volt AC or DC @ 6W; 115 VAC option
Surge Protection: IEEE C 62.41-1980 Category C

Interface

Single MS crimp multi-pin connector provides power and output signals:

- 9 isolated contact pairs rated for 100 mA at 350 Volts AC for presence indication
- Isolated serial RS-232 data bus at 9600 baud provides measurement data in point-to-point or polled multi-drop configurations.

Mechanical

The unit is encased in a rugged water-tight NEMA 4X polycarbonate box. It is mounted on a universal bracket, enabling securing of unit to poles, tilting in both axes and quick locking.

SIZE 16 X 24 X 12 cm (6 X 9 X 5 inches)

WEIGHT 2.2 Kg (5 Lbs.)

Reliability

MTBF (Mean Time Between Failures) designed for 90,000 hours (10 years)

Maintainability

- Shop Repairable
- Self-Test diagnostic software
- 15 minute replacement time

Environmental conditions

TEMPERATURE RANGE -37° to +74° C

HUMIDITY to 95% RH

VIBRATION 2g up to 200 Hz

SHOCK 5g 10mSec half sine wave

