

trans-Q

NON-INTRUSIVE RADAR CLASSIFIER



trans-Q

OVERVIEW

The *trans-Q* radar traffic classifier meets the increasing demand for a reliable, non-intrusive traffic measuring device. Daily traffic volumes continue to increase making it more difficult and dangerous than ever to install traffic sensors in the roadway or on top of the road surface. The *trans-Q* gives traffic engineers a solution for these problems.

The *trans-Q* is easy to set-up on the roadside with a PDA (Palm) and does not disturb traffic flow. The sensor detects all passing vehicles in two directions, obtaining their length, speed and classification. Data is easily retrieved with either a PDA (Palm) or wireless connection (GPRS or Bluetooth).

BENEFITS

- ▶ Non-intrusive technology allows you to analyze traffic without sensors in the roadway
- ▶ Easy roadside installation with pole-mounted set-up
- ▶ Does not disturb traffic flow
- ▶ Reduces safety risk to workers because there is no maintenance of embedded roadway sensors
- ▶ 12 Volt battery can be recharged in as little as eight hours



trans-Q Traffic Sensor

FEATURES

- ▶ Non-intrusive radar classifier that provides high resolution speed, count, and length classification
- ▶ Two lane detection - two direction capability
- ▶ Speed range of 2-130 mph (3-199 km/h)
- ▶ Radar range up to 98.4 feet (30 meters)
- ▶ Memory up to 1.6 million vehicles
- ▶ Rechargeable battery
- ▶ Solar power option
- ▶ Easy set-up using either a PDA (Palm) or wireless connection (GPRS or Bluetooth)

ADVANTAGES

- ▶ No influence on speed behavior because there are no visible road sensors
- ▶ Does not require tubes, loops, chains. Cost of tubes over a lifetime of counter can be expensive.
- ▶ No cutting into pavement, which reduces installation cost and increases pavement life
- ▶ Only one sensor necessary to monitor two lane/two direction traffic



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SPECIFICATIONS

Model Number

- ▶ PTO-200

Sensor

- ▶ Microwave
- ▶ 24, 125 GHz
- ▶ Power output 5 mW

Speed Range

- ▶ 2 - 130 mph (3 - 199 km/h)

Length Range

- ▶ 3 - 75 feet (1 - 25 meters)

Directions

- ▶ Two direction detection

Radar Range

- ▶ Up to 98.4 feet (30 meters)

Installation Height/Distance

- ▶ Up to 30.8 feet (10 meters)

Power

- ▶ Battery rechargeable
- ▶ 12 V
- ▶ 18 Ah internal
- ▶ Optional main/solar power

Battery Life

- ▶ Average 10-12 days at -20°C to 60°C

Battery Charging

- ▶ External battery charger
- ▶ Charging time typically 8 hours

Weight

- ▶ 27.5 lbs including battery (12.5 kg)
- ▶ 8.8 lbs without battery (4 kg)

Operating Temperature

- ▶ -22°F to 176°F (-30°C to 80°C)

Dimensions

- ▶ 11.8 x 13.7 x 5.9 inches (300 x 350 x 150 mm)

Housing Material

- ▶ PVC and aluminum

Computed Values

- ▶ English or metric

Data Prog/ Read Rate

- ▶ 9600 baud RS-232

Real-Time Clock

- ▶ Year, Month, Day, Hour, Minute, Second
Direction, Length

Data Storage Memory

- ▶ Up to 1.6 million vehicles

Verification

- ▶ Serial on/off data at 9600 baud

Set-up and Data Retrieval

- ▶ Palm PDA (RS-232, Bluetooth, GPRS)

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