

# Sensors for Traffic Detection

## **Autoscope**<sup>®</sup> *DEM114*

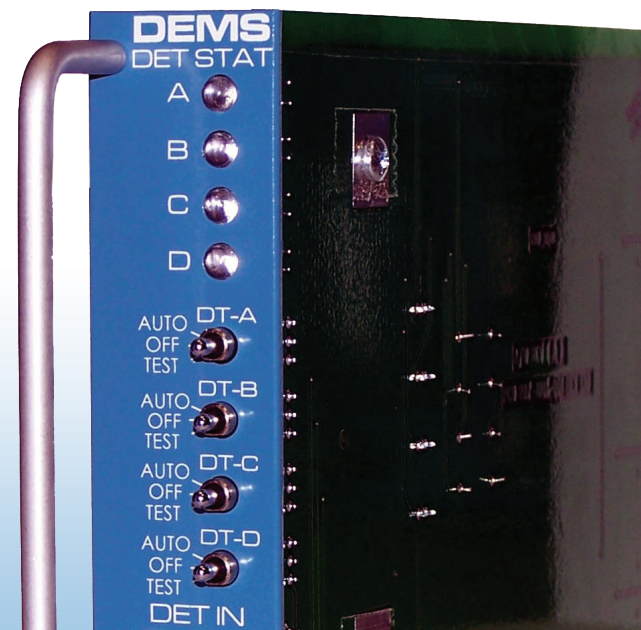
The Detector Expansion Module Subordinate (DEM114) is used with the Detector Expansion Module Main (DEM144), provides a simple solution to wiring detector outputs to a NEMA TS1, TS2, Type 170, or 2070 cabinet where access to the detector input termination points is limited or when the controller software cannot reassign detector inputs. Each DEM114 distributes up to four additional outputs from a TAP or RackVision Terra units.

As the complexities of traffic management increase, ITS strategies are valuing more and more the multi-tasking capabilities of intelligent detection sensors to not only accurately detect traffic at the stop bar to trigger a signal change, but to count, classify, track, and even provide advanced detection for traffic adaptive systems and dilemma zone safety applications. Today's multi-modal intersections and roadways require the multi-modal capabilities of leading-edge detection sensors to provide capabilities such as bicycle detection and differentiation.

Econolite's vehicle detection solutions continue to play a critical role in helping ITS deliver on the promise of enhanced public safety, reduced congestion, shorter travel times, lowered environmental impacts, and increased cost savings for all roadway users.

### Key Features

- Up to four detector outputs to DEM114 rear edge connector for a Traffic Detection System
- RJ-11 port allows four inputs from DEM144
- Single slot width form factor with handle
- Four output LEDs
- Four three-position switches (Auto, Off, and Test)
- Four circuit board jumpers to bypass switches





## Benefits

- Distributes all video and radar detection outputs and can be distributed to the correct controller inputs by using the existing detector rack or Input File configuration
- Eliminate the need to wire directly to terminal blocks on the back of the Input File
- Easily adaptable to rack configuration
- Output LEDs and test switches verify performance and correct output configuration and maintenance
- Easily expandable by adding additional DEM114

## Outputs

- Up to four outputs on DEM114 rear edge connector

## Inputs

- Up to four inputs by the front panel RJ-11 connector

## Connectors

- One Female RJ-11 connector
- Cinch Jones 50-44A-30M edge connector

## Warranty

- Two-year warranty

## Product Support

- Product support and training is available through the EGI Learning Center

## Hardware

- The DEM114 slides freely into rack card guides having a nominal slot width of 0.075" and a maximum slot width of 0.125". The front panel is minimally 0.90" sheet aluminum with a durable protective coating. An aluminum handle on the front allows easy removal from a detector rack. Nominal outer dimensions of the handle are 1" x 4". The unit may be inserted or removed from a powered detector rack

## Specifications

### Temperature

- -29°F to +165°F (-34°C to +74°C)
- 0 to 95% relative humidity (non-condensing over entire temperature range)

### Weight

- 0.26 lb
- 0.12 kg

### Dimensions

- 4.5 in. (H) x 1.1 in. (W) x 6.9 in. (D)  
(11.4cm x 2.8 cm x 17.5 cm)

