

Autoscope Solo® Mini-Hub II

A user-friendly detection system that interfaces up to 8 Solo Machine Vision Processors (MVP) and provides 16 detector outputs to a TS1, 170, or 2070 traffic controller through one Mini-Hub II

Description

The **Autoscope Solo** Mini-Hub II Detector Port Master (DPM) provides a simple, reliable interface between multiple **Autoscope Solo** MVPs and any standard traffic controller. It monitors phase colors and gathers detection information from up to eight **Autoscope Solo** MVPs.

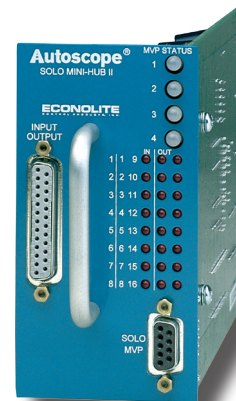
The Mini-Hub II is a single-card device that can stand alone or slide easily into a detector rack. Its advanced, microcontroller-based communication circuitry passes real-time detection states or **Autoscope®** traffic alarms to the traffic controller as discreet detector outputs. The **Autoscope Solo** MVPs configure the inputs and outputs on the Mini-Hub II DPM automatically.

The Mini-Hub II is suitable for an **Autoscope Solo** detection system in all TS1, TS2, Type-170, and 2070 cabinets. The real-time detector outputs from the rear edge connector or front connector are fully compatible with existing loop detector systems.

The simple design, using a single circuit board and face-plate, allows easy insertion into a 4-channel slot of a standard rack or equivalent enclosure. The **Autoscope Solo** detection system quickly installs in any existing traffic cabinet.

Indicators

Visual indications show the operational status and health of the Mini-Hub II and the networked Solo MVPs connected at the **Autoscope** Communications Interface Panel (ACIP). Together, they form a single point of maintenance for the **Autoscope Solo** detection system by providing connection for a laptop computer and optional video monitor.



Benefits

- Superior value when compared with other detector systems
- One Mini-Hub II serves up to 8 Solo MVPs
- Saves valuable time merging video detection into existing traffic cabinet systems
- Provides 16 contact closure outputs of the Solo MVP to standard and innovative detection applications
- Reduces maintenance and simplifies troubleshooting of detection system in cabinet

Features

- 16 TS1 detector outputs from up to 8 **Autoscope Solo** MVPs
- Outputs can emulate a 4-channel loop detector
- Multi-cabinet use in TS1, TS2, Type-170, or 2070 cabinets
- Rack or stand-alone installation
- Fail-safe mode transmits outputs to traffic controller on failure
- Self-diagnostics on power-up perform self-tests and detect component failures
- Microcontroller technology for reliable long-life performance
- 8 compatible inputs for monitoring red and green signal states

Compatibility

All input and output signals are fully compatible with NEMA TS1, TS2, Type-170, and 2070 traffic controllers. Red and green phase color inputs to the front connector increase stop line detection effectiveness. As an alternate to the front panel I/O connector, four inputs and eight outputs can be diverted to the rear edge connector for custom applications.

NEMA TS2 Compatibility

The **Autoscope Solo** Mini-Hub II DPM complies with all applicable sections of the NEMA TS2 Publication Standard. It performs specified functions under the environmental conditions in Section 2.

Autoscope Solo Detector Network

The **Autoscope Solo** Mini-Hub II is the detector port master for the local **Autoscope Solo** detector network. The Mini-Hub II supports up to 8 Solo Pro MVPs by regular polling for the current state of detectors in each

Autoscope Solo MVP. This data is then relayed to the controller via discrete outputs.

Hardware

The Mini-Hub II slides freely into rack card guides having a nominal slot width of 0.075 in. and a maximum slot width of 0.125 in.

The front panel is minimally 0.09 in. sheet aluminum finished with a durable protective coating. An aluminum handle on the front panel allows easy removal from a rack. Nominal outer dimensions of the handle are 1 in. x 2½ in. The unit may be inserted or removed from a powered detector rack.

Visual queues for easy set up and maintenance include:

- 4 tri-color indicators showing the operational status of communications and the health of the first 4 Solo MVPs
- Eight red LED indicators showing the state of each of the 8 inputs
- 16 red LED indicators showing the state of each of 16 outputs

Power

- 20 to 28 VDC, 100 mA not exceeding 5W (Operates at 24 VDC as allowed in Section 5.3.4.5 of the TS2 Standard)

Outputs

- 16 optically-isolated NEMA TS1/TS2 outputs

Inputs

- 8 optically-isolated inputs to monitor signal controller phases or other conditions

Connectors

- Female 9-pin metal shell D subminiature connector with female jackscrews
- Female 25-pin metal shell D subminiature connector with female jackscrews
- Cinch Jones 50-44A-30M edge connector

Dimensions

- 4.5 in. H x 2.335 in. W x 7 in. D (114.3 mm H x 59.3 mm W x 177.8 mm D) As illustrated in Figure 6-5 of the TS2 Standard

Weight

- 0.5 lb (0.3 kg)

Environmental

- -29.2°F to +165.2°F (-34°C to +74°C)

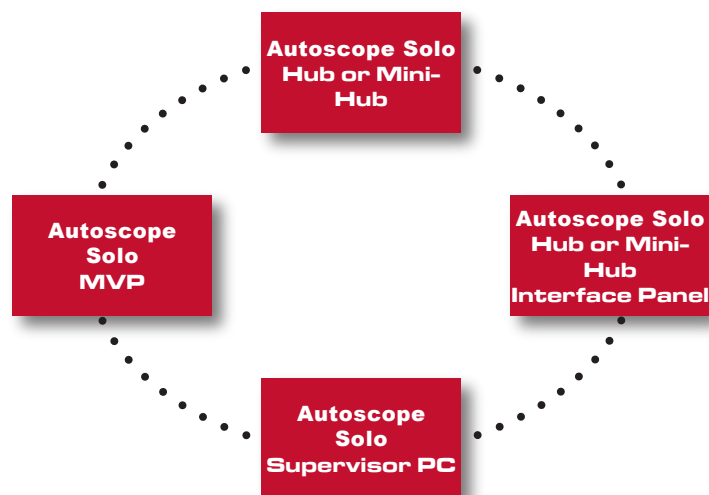
- 0 to 95% relative humidity (non-condensing over the entire temperature range)

Warranty

- Two-year warranty (Extended warranty package available)

Product Support

Product support and training by team of factory-trained **Autoscope** technical support specialists



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