Description

The Autoscope Solo Terra Interface Panel (TIP) provides a robust Autoscope EasyLink connection point in the cabinet for communicating with Solo Terra video detection sensors. The TIP supports “3-wires-only” branch cable connections to the sensors, an interface to the Autoscope Terra Access Point (TAP) for outputs to traffic controllers, and a standard Ethernet connection for a laptop at the Traffic Control Center (TCC). The interface panel also protects other cabinet components from branch cable transients and surges, while making zoom set-up and sensor maintenance easily manageable directly from the cabinet.

EasyLink connectivity allows simple installation within the traffic cabinet and user-friendly integration into an agency’s Ethernet-based communications network. A standard CAT-5 cable connects the TIP into a network to view video, collect traffic data, and maintain the Autoscope system. Terra Technology products like the Autoscope Solo Terra sensor and Terra Access Point Detector Port Master (DPM) use Internet-standard, IP-based addressing with a unique Ethernet MAC address.

EasyLink connectivity means simple “3-wires-only” installation for the Solo Terra sensor to communicate digital video and data to the traffic cabinet. “3-wires-only” power cabling saves time and money by quickly installing with convenient compression blocks on the TIP.

The TIP communicates with up to eight Autoscope Solo Terra sensors via “Broadband-over-Power” (BoP) technology. This leading-edge, field-proven technology transmits video, supervisor communications, and detector port data over a standard “3-wires-only” power cable. The robust 14 Mb/sec-rated transceivers have a remarkable throughput of up to 6 Mb/sec more than sufficient to transmit traffic data, alarms, and MPEG-4 video simultaneously.

Benefits

- Efficient “3-wires-only” connectivity to Autoscope Solo Terra sensor
- Quick installation into any traffic control cabinet configuration
- Convenient integration into an Ethernet-based communications infrastructure
- Reduces maintenance time

Features

- Supports up to 8 Autoscope Solo Terra sensors and TAP
- RJ45 Ethernet connection for laptop or cabinet network
- High-voltage transient protection
- Power line isolation
Theory of Operation

The TIP supports Autoscope EasyLink communications with up to eight Autoscope Solo Terra sensors. It provides high-voltage transient protection, mechanical strain relief, “3-wires-only” power connections. The interface panel passes detection information from the Autoscope sensors to the TAP DPM for the traffic controller or cabinet. The Autoscope Configuration Wizard® makes detection set-up quick and easy.

The TIP is a highly integrated and optimized solution for networking Solo Terra sensors. It reliably delivers broadband exchanges in the challenging traffic communications environment and combats deep attenuation events, noise sources, and multi-path fading by adjusting to the variable Signal to Noise Ratio (SNR). The system manages communications for dependable distribution of data packets and offers the high-bandwidth performance necessary to drive sophisticated traffic detection applications.

Applications

• Intersection detection
• Highway data collection
• Automatic incident detection
• Bridge, tollway, and tunnel management
• Work-zone safety and traffic control
• Traveler information systems
• Remote video surveillance

Connectors

• Input power: 3-position compression block
• Autoscope Solo Terra sensors power output: Four 3-position compression blocks
• TAP interface connector
• RJ45 connector for EasyLink

Power

• 5W
• 110/220 VAC, 50/60 Hz from line-filtered side of cabinet power supply
• 2 fuses

Environmental

• -29°F to +165°F (-34°C to +74°C)
• 0 to 95% relative humidity
• Up to 100% relative humidity per MIL-E-5400T paragraph 4.3.24.4

Dimensions and Weight

• 11 in. x 7 in. x 2 in. (28 cm x 18 cm x 5 cm)
• 1.7 lb (0.8 kg) on standard sheet metal panel

Indicators

• LED indicator for Ethernet link/activity
• Ready-power LED
• LED indicators for local network link, activity, and error status

Options

• DIN rail mount

Warranty

• Three-year warranty
• Extended warranty package to six years

Regulatory

• NEMA TS2 Compliant
• CE EN 55022
• EN 61000-6-1
• CE EN 60950
• FCC Part 15, Class A

Product Support

Product support and training by a team of factory-trained Autoscope Technical Support Specialists

© 2011 Econolite Control Products, Inc. All rights reserved. Econolite Control Products, Inc. reserves the right to change or update these specifications at any time without prior notification.