

SCHEDULING, TRENDING AND ALARMING FOR MULTI-VENDOR LONWORKS® NETWORKS

OVERVIEW

Open, interoperable, LonWorks-based facility automation systems require an inexpensive, robust device to provide scheduling, trending, and alarming for all devices in the system, allowing building owners to enjoy energy savings while increasing occupants' comfort.

The Circon MAC-300-STA comes complete with multiple scheduling functional blocks that support structured, enumerated, and integer network variable types, and a battery backed real-time clock making it ideally suited for interoperable multi-vendor LonWorks networks. Combined with the scheduling capabilities, the MAC-300-STA comes with comprehensive trending and alarming functional blocks enabling facility managers to accurately monitor building conditions and decrease incident response time.

APPLICATIONS

Energy optimization and adherence to the ASHRAE 90.1-1999 energy standard can be achieved when the MAC-300-STA is used to integrate the two largest consumers of energy in a commercial building: air conditioning and lighting. By combining the schedules for lighting and HVAC, energy efficiency improves and occupant satisfaction increases.

Trouble-free integration with Douglas Lighting Controls' LonWorks-based programmable lighting relay panels is achieved through the MAC-300-STAs innovative scene transmitter functional block that monitors the state of the lighting schedules and buffers the scene events using one network variable.

continued

ORDERING INFORMATION

Part number 10-0399



FEATURES AND BENEFITS

- Seamless integration into interoperable LonWorks networks
- 12 configurable schedule blocks with enumerated, structured and integer based network variable types allow scheduling of a wide variety LonWorks devices
- 10 configurable trendlogs for monitoring of essential data
- 10 configurable alarm blocks for immediate notification of alarm conditions
- On board battery-backed real time clock maintains time-of-day, schedule and trend log integrity, even over power interruptions
- Scene transmitter functional block consumes only one address table entry for multiple lighting zone schedules
- Faster, easier to use LNS® plug-ins
- Full support for SNVT_scene and integration with complete line of Douglas Lighting Controls LonWorks lighting products
- Small footprint enclosure is easy to install
- Fully integrated with Circon's Visual Integrator 3 software including Alarm Viewer, Log Viewer, and Network Scheduler



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APPLICATION continued

This greatly reduces installation time by eliminating the need for multiple connections between the MAC-300-STA and Douglas WNX-2624 networking devices.

As well, type changeable outputs allow schedules to be used in a wide variety of applications including defining values for analog points, rolling-back temperature setpoints, or controlling mechanical equipment.

Using Circon's Visual Integrator 3 software, a complete operator workstation system for managing scheduling, trending and alarming can be created. The scheduling, trending and alarming functional blocks are easily configured using Windows®-based software which is fully compatible with Echelon Corporation's LNS®.



SPECIFICATIONS

COMMUNICATIONS

Transceiver	Echelon Free Topology Transceiver (TP/FT-10) 78 kbps
Wire type (always use copper conductors only)	Windy City Wire: 104550CIR-B (16AWG) or 105550CIR-B (22AWG)
Neuron®	3150, 10 MHz

POWER SUPPLY

Power	24 VAC 50 – 60Hz @ 12 VA
Fuse	1.0A slow-blow, (Bussman GMD-1.0A, Littlefuse 239-001)

MECHANICAL

Operating temperature	32 °F to 120 °F (0 °C to 50 °C)
Humidity (non condensing)	5% to 95% RH at 120 °F (50 °C)
Weight	0.95 lb. (440 grams)
Dimensions	5.6" x 5.75" x 1" (143 mm x 146 mm x 25 mm)
Mounting	4 screws, not supplied

AGENCY LISTINGS AND REGULATORY COMPLIANCE

Class II device when powered by class II supply
 CSA 22.2 #205-M1983, #950-M89
 UL 916 certification for Energy Management Equipment
 FCC Part 15, Class B of the FCC rules for Radio Frequency Devices

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