SCHEDULING, TRENDING AND ALARMING CONTROLLER

FOR MULTI-VENDOR 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 LonWorks-based programmable lighting relay panels is achieved through the MAC-300-STA's innovative scene transmitter functional block that monitors the state of the lighting schedules and buffers the scene events using one network variable. This greatly reduces installation time by eliminating the need for multiple connections between the MAC-300-STA and LonWorks lighting 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.

FEATURES

→ Easy-to-use LNS plug-ins for 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 trend logs 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

→ Full support for SNVT_scene and integration with LonWorks lighting products

→ Small footprint enclosure is easy to install

→ Fully integrated with Circon's Visual Integrator software including Alarm Viewer, Log Viewer, and Network Scheduler

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APPLICATIONS CONTINUED

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®

ORDERING INFORMATION

Part number: 10-0440

SPECIFICATIONS

COMMUNICATIONS

Transceiver:	Echelon Free Topology Transceiver (FTT-10A @ 78 kbps)
Wire Type:	AWG22 to AWG16 stranded (use twisted pair wiring and copper conductors for network)
Neuron®:	3150, 10 MHz

POWER SUPPLY

Controller:	24 VAC, 50-60 Hz, at 12 VA
Fuse:	1.0 A slow-blow (Bussman GMD-1.0A, Littlefuse 239-001)

MECHANICAL

Operating Temperature:	32°F to 120°F (0°C to 50°C)
Relative Humidity:	5% to 95% RH at 120°F/50°C (non-condensing)
Weight:	0.95 lb. (440 grams)
Enclosure Dimensions:	5.6" x 5.75" x 1" (143mm x 146mm x 25mm)
Mounting:	Four sheet metal screws (not supplied)

AGENCY LISTINGS AND REGULATORY COMPLIANCE

Class II device (when powered by a class II supply)
CSA 22.2 #205-M1983, #950-M89
UL916 certification for Energy Management Equipment
Part 15, Class B of the FCC Rule for Radio Frequency Devices

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