



iWorX ALM-1

Specification & Submittal Data

ALM-1

The iWorX ALM-1 alarm module is a stand-alone microprocessor based controller for alarm generation. The application would be for commercial heating, ventilating, and air conditioning (HVAC) equipment.

Overview

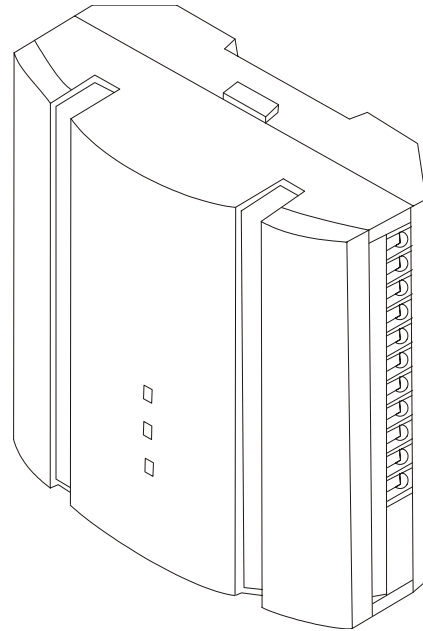
The ALM-1 provides alarm detection and reporting by monitoring up to eight inputs. Each input can be configured to support a temperature reading using a thermistor or a switch contact reading.

Each alarm event detected is reported to the network. Digital outputs are provided to drive external alarm indication such as lamps or buzzers.

The controller is based on the LONWORKS® networking technology. The controller can be networked to a higher-level control system for monitoring and control applications.

Features

- Temperature based alarms
- Digital based alarms using dry contacts
- Alarm-controlled triac outputs
- LONWORKS interface to building automation systems.
- Automatic configuration with the iWorX Local Control Interface (LCI)



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Specifications

Electrical

Inputs

- Cabling: twisted shielded pair, 18 AWG recommended—500 feet max. (152 meters)
- Resolution: 10 bit

Thermistor Inputs

- Precon Type III 10K thermistor

Switch Inputs

- Dry Contact
- Normally closed or normally open
- 5 Volts DC Max

Outputs

- 24 Volts AC
- 1 Amp at 50 °C, 0.5 Amps at 85 °C

FTT-10A Network

- Speed: 78 KBPS
- Cabling: Maximum node-to-node distance: 1312 feet (400 meters)
- Maximum total distance: 1640 feet (500 meters)

For detailed specifications, refer to the FTT-10A Free-Topology Transceiver User's Guide published by Echelon Corporation. For information on ordering Connect Air items, contact Connect Air International; 4240 B Street; Auburn, WA 98001 <www.connect-air.com>.

Table 1: Network Wire Specifications

Cable Type	Pairs	Details	Connect Air Catalog No.
Level 4 22AWG (0.65mm)	1	Unshielded, Plenum, U.L. Type CMP	W221P-2001
Level 4 22AWG (0.65mm)	1	Unshielded, Non-Plenum, U.L. Type CM	W221P-1002

Power

Power Requirements

- 24 VAC nominal (requires an external supply)

Power Consumption

- With no external loads: 15 VA

Mechanical

Housing

- Dimensions: 4 3/8" high, 4 5/16" wide, 2" deep (111 mm high, 110 mm wide, 51 mm deep)
- ABS Polycarbonate

Weight

- Controller Weight: 0.45 pounds (0.22 kilograms)
- Shipping Weight: 0.60 pounds (0.28 kilograms)

Electronics

- Processor: 3150 Neuron 10 MHz
- Flash: 48 Kilobytes
- SRAM: 8 Kilobytes
- Termination: 0.197" (5.0 mm) Pluggable Terminal Blocks, 14-22 AWG

Environmental

- Temperature: -40 °F to 185 °F (-40 °C to 85 °C)
- Humidity: 0 to 90%, non-condensing

Agency Listings

- UL916

Agency Compliances

- FCC Part 15 Class A
- CE