

### ASM-1

The ASM-1 auxiliary sensor module is a stand-alone microprocessor based controller for monitoring auxiliary sensors. The application would include commercial unitary heating, ventilating, and air conditioning (HVAC) equipment.

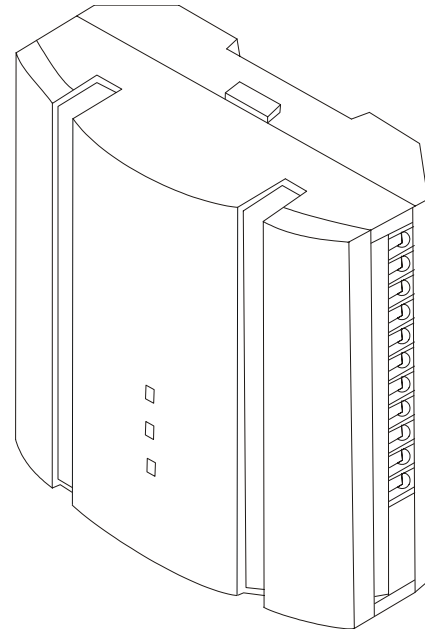
### Overview

Analog inputs are provided for outdoor air temperature, outdoor air humidity, indoor air humidity, and supply water temperature. A "unit enable" digital input is also provided for confirmation to water dependant systems.

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

- Outside air temperature measurement
- Outside air humidity measurement
- Supply water temperature measurement
- Indoor humidity measurement
- "Unit Enable" digital input
- LONWORKS interface to building automation systems.
- Automatic configuration with the LCI



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# Specifications

## Electrical

### Inputs

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

### Outdoor Humidity

- 0-10 Volts DC

### Outdoor Air, Supply Water Temperature

- Precon Type III 10K thermistor

### Indoor Humidity

- 0-10 Volts DC

### Unit Enable

- Normally open (closed when active)
- 5 Volts DC Max

### 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](http://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

- 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