

EAMS CONTROLLER

NEMA 1 CONTROL ENCLOSURE (for remote mount)

APPLICATION

The EAMP Controller includes factory calibration and wiring of the controller, transformer and terminal strip in a painted NEMA1 electrical enclosure. The controller is a BACnet compatible device. The package offers precise set-point monitoring and adjustment for the EAMS family of models. Units may also be used for flow validation and calibration. The controller, when programmed as an EAMS050/060, accepts a 4-20 mA input and provides a 0-10 V CFM (l/s) output to communicate with the building automation system. It is factory programmed to be used for air measurement and air measurement and damper control.

CONTROLLER SPECIFICATIONS

CONTROLLER ENCLOSURE

Plenum-rated enclosure meets UL94-5V.

ELECTRICAL ENCLOSURE

12" x 12" x 6" (305 x 305 x 152) NEMA 1 (painted finish).

SUPPLY VOLTAGE

120/208/240 Vac, 50/60 Hz (24VAC secondary).

INPUT SIGNAL

4-20 mA from BAS or other source.

OUTPUT SIGNAL

0-10V calibrated output signal (or BACnet).

CONTROLLER

Application specific set points factory calibrated.
Program logic & calibration in nonvolatile EPROM.

ACCURACY

3% over measuring range.

POWER REQUIREMENTS

24 VAC +/- 15%, 10VA, 50/60 Hz.

VELOCITY REQUIREMENTS

Product Range - 100 to 2000 FPM (.51 m/s to 10.1 m/s)
(Face Area).

OPERATING TEMPERATURE

-20°F to 120°F (-29°C to 50°C).

AGENCY LISTINGS

FCC, Class B and UL-916 (category PAZX).

PROGRAM MEMORY

Nonvolatile EPROM.

FACTORY CONNECTIONS

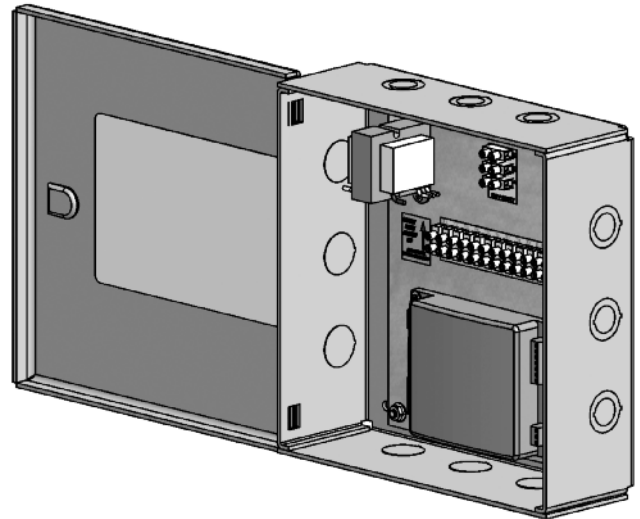
24 Vac Leads - Factory wired to control panel.
Line voltage leads Factory wired to terminal strip.
Ground wire terminated at electrical enclosure.

FIELD CONNECTIONS

Wire for Field connections by others.

SCREW TERMINALS

Single AWG #14 wire (up to two AWG #18 or smaller wires).



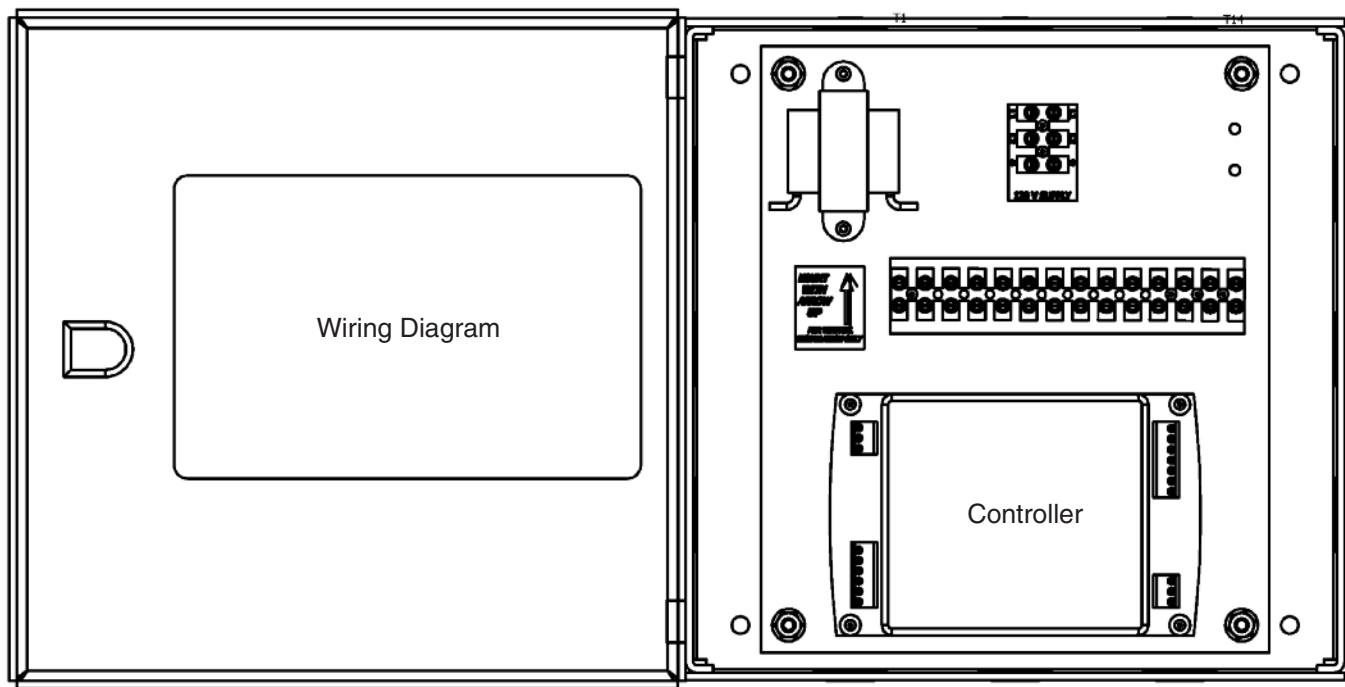
SPECIFICATION

Furnish and install an electronic mass airflow measuring controller capable of measuring a range from 100 to 2,000 FPM (0.51 m/s to 10.1 m/s) at a temperature range of -20°F to 120°F (-29°C to 50°C). The controller shall be plenum rated to meet UL94-5V and be factory installed in a painted NEMA 1 electrical enclosure. Unit shall control to within $\pm 3\%$ average measuring accuracy over the entire specified measuring range. All internal low voltage wiring shall terminate in the NEMA 1 enclosure and shall be completed and tested at the factory. Control package shall be capable of receiving line voltage of 120 VAC or 240 VAC at a single point power connection internal to the enclosure. A factory furnished and calibrated controller shall be programmed, in nonvolatile EPROM, with the job specific flow range. A 4-20 mA input signal, from the BAS, shall result in the positioning of the (optional) damper actuator to maintain set point CFM (l/s) and yield a 0-10 VDC linear output to the BAS that is proportional to the CFM (l/s) and shall be altitude and temperature compensating. Controller shall have a BACnet communication feature to facilitate digital communications when required. Complete assembly shall be constructed, programmed, wired and calibrated in an ISO 9001 certified facility. Air Measuring Stations shall be, in all respects, equivalent to Ruskin Model EAMS CONTROLLER.

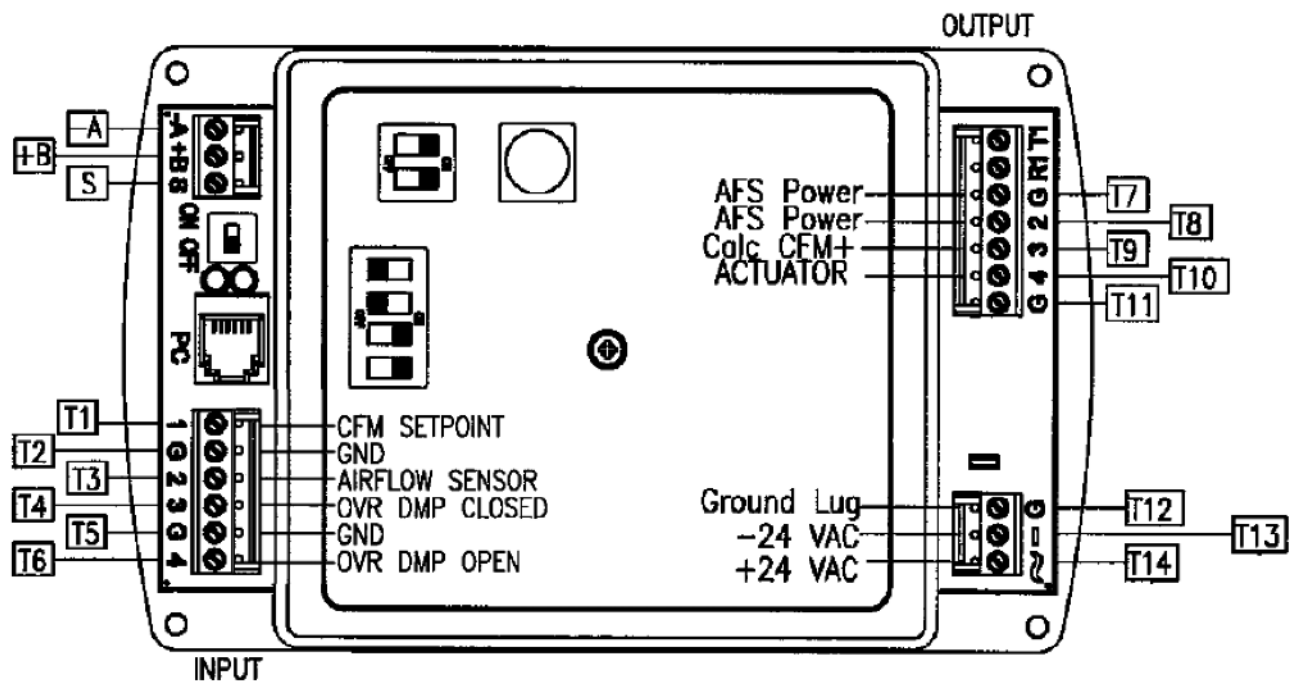
Notes:

1. Values shown in () are millimeters unless otherwise indicated.
2. Refer to installation manual for additional details.

DIMENSIONAL DETAILS



12" x 12" x 6" (305 x 305 x 152) NEMA 1 control enclosure (for remote mount or if above 120°F (50°C)). Controller, 120/24 VAC transformer and terminal strip mounted and shipped with EAMS.



Shown Above: EAMS050/060 One Damper, One Sensor

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