

### Application and Design

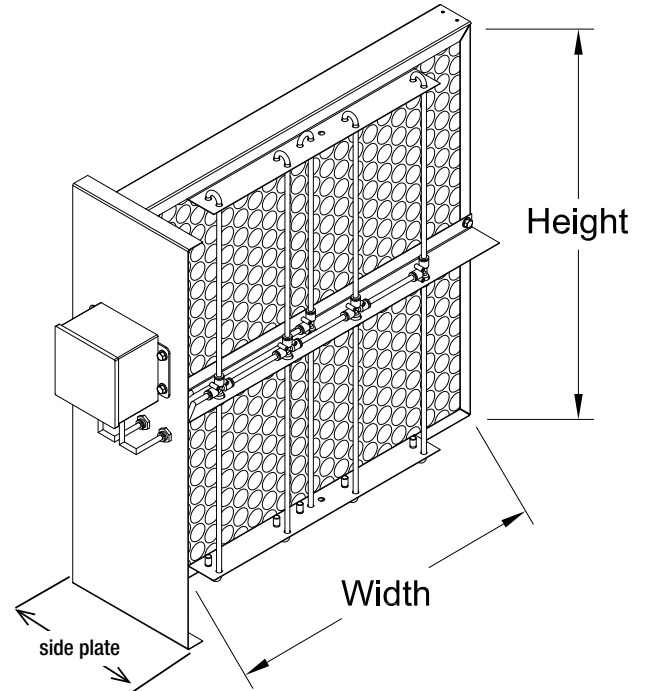
The AMS is an accurate airflow measuring station and is furnished with a properly sized pressure transducer that outputs a signal proportional to cfm. A field supplied controller can use the transducer's signal along with the flow formula:  $CFM = Area * K * (P_{transducer})^m$  to regulate a modulating actuator to the target set-point. K & m are factory supplied variables specific to each measuring station. The AMS is also available with a factory supplied LON controller that accepts a target flow set-point as an input (either analog or digital) and outputs a 0-10 VDC signal that can be used to position a damper (sold separately) and a 0-10 VDC signal proportional to the airflow.

### Ratings

**Velocity:** 300 to 2000 fpm (1.5 - 10.2 m/s)  
**Temperature:** -20°F to 180°F (-29°C to 82°C) Consult factory for temperature lower than -20°F (-29°C)

**Airflow Monitoring Accuracy:** 5% of reading

Construction	Standard	Optional
<b>Airflow Straightener</b>	16 ga (1.5mm)	-
<b>Frame Material</b>	Galvanized Steel	-
<b>Sideplate/sleeve</b>	8 in. (203mm) sideplate	8 in. (203mm) sleeve
<b>Flange</b>	None	* 1 1/2 in. (38mm); Upstream side, Downstream side, Both Sides
<b>Air Straightener</b>	Polycarbonate Honeycomb	-
* Available when sleeve option is selected		



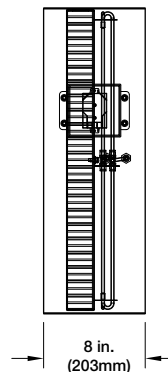
\*W & H dimension furnished approximately 1/4 in. (6mm) undersize.

### Features & Control Options

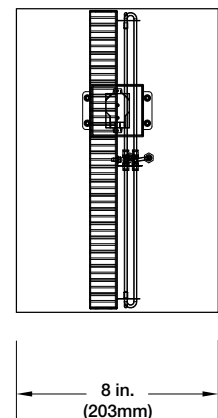
- Factory supplied 0-10 VDC pressure transducer
- Optional factory supplied LON controller (0-10 VDC, 2-10 VDC, or 4-20 mA)
- Galvanized steel sleeves available
- Clean wrap

### Size Limitations

W x H	Minimum Size	Maximum Size
		Single Section
Inches	6 x 8	60 x 48
mm	152 x 203	1524 x 1219
* For sizes larger than listed, consult factory.		

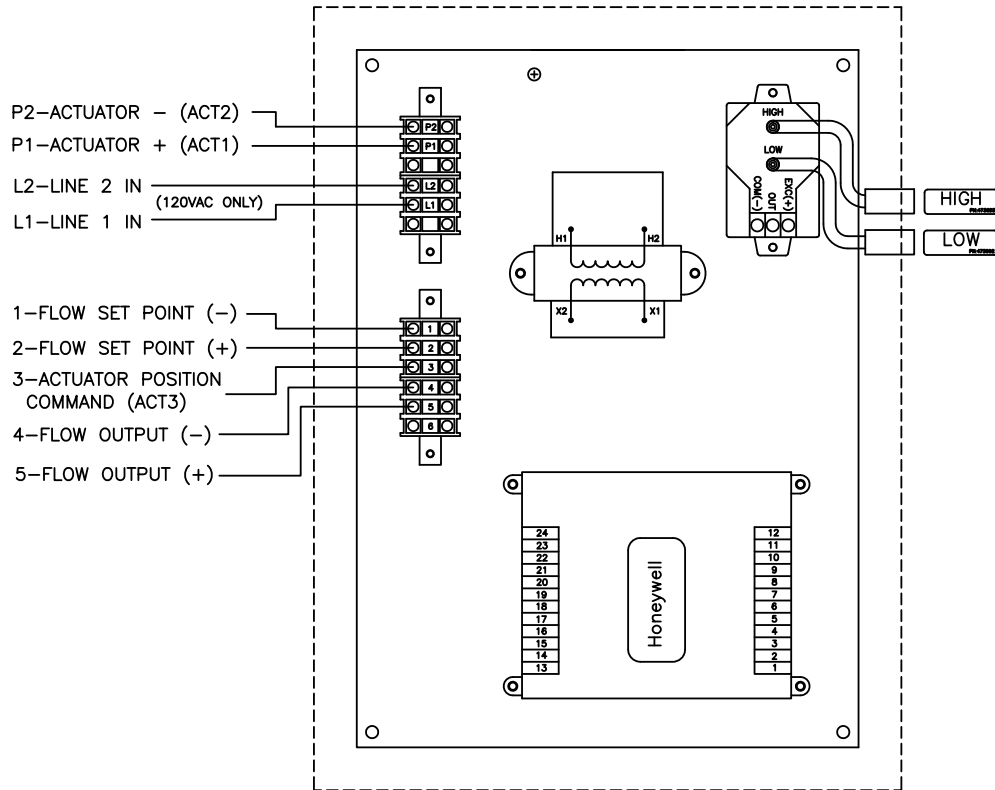


Sideplate  
side view



Sleeve  
Side View

# Wiring Diagram for Controller



## Specifications

Air measuring station meeting the following specifications shall be installed where shown on plans as an air monitor station integral to the minimum outside air damper. The air measuring damper shall control the minimum amount of outside air as recommended by ASHRAE Standard 62 or California Title 24.

Testing and ratings to be in accordance with AMCA standard 500-D.

Basis of design is Greenheck model AMS.

