

# VOLU-trol/E STATION

## THERMAL AIRFLOW MEASURING SYSTEM WITH OPPOSED BLADE DAMPER

### STANDARD CONSTRUCTION

<b>Casing:</b>	14 ga. galvanized sheet metal, intermittently welded, sealed with metal caulking.
<b>Flanges:</b>	1-1/2" wide, 90° formed flanges.
<b>Airflow Straightener:</b>	Corrosion resistant 3003 aluminum. 3" deep x 1/2" cell.
<b>Probe:</b>	Type 6063 anodized extruded aluminum. 1-1/8" diameter.
<b>Sensor Housing:</b>	Injection molded polycarbonate.
<b>Sensor Type:</b>	Hermetically sealed, precision matched thermistors with laser trimmed resistive heating element mounted in flow conditioning aperture.
<b>Sensor Signal Processing:</b>	Microprocessor with 12 bit A/D conversion for each sensor node.
<b>Probe Mounting:</b>	Externally mounted via 4" x 4" aluminum plate, with closed cell neoprene gasket.
<b>Probe to Probe Connection:</b>	Integral plenum rated cable with mini-DIN Snap & Lock connector for signal and power. Multiple probe array connected serially in daisy chained configuration.
<b>Station to Transmitter Connection:</b>	Integral plenum rated cable with mini-DIN Snap & Lock connector. Standard length 10'.
<b>Sensor Density:</b>	ELECTRA-flo Probe Array Level 1.
<b>Damper Blades:</b>	14 ga. galvanized sheet metal, triple V-groove, opposed blade, running parallel to the long dimension.
<b>Damper Bearings:</b>	Bronze.
<b>Damper Linkage:</b>	Mechanical linkage, 12 ga. galvanized sheet metal.

### PERFORMANCE SPECIFICATIONS

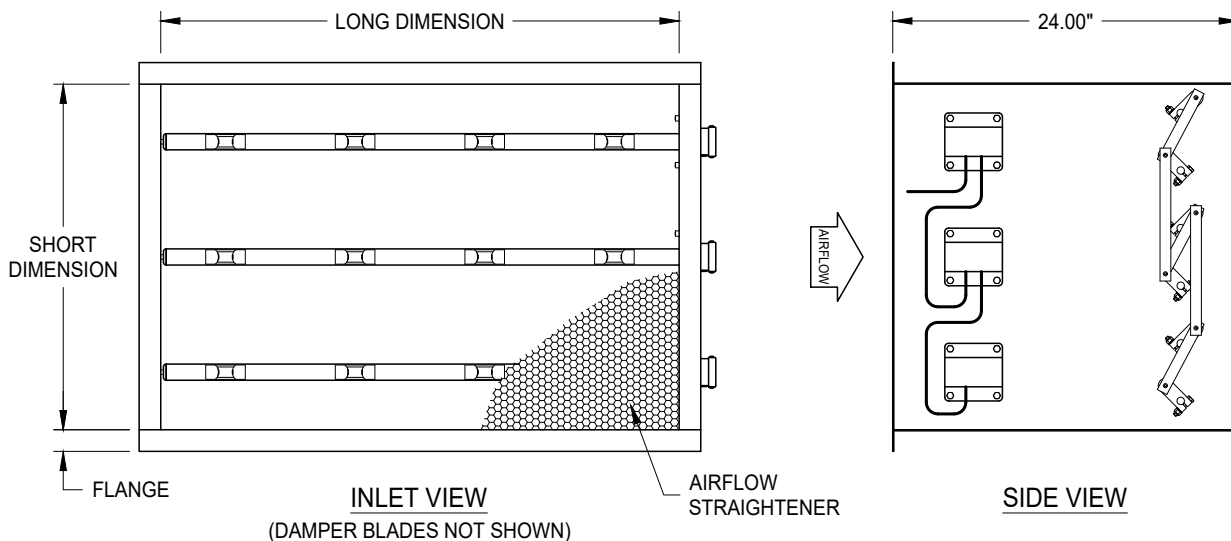
<b>Individual Sensor Accuracy:</b>	±2% of reading
<b>Station Accuracy:</b>	±2 to 3% of flow when installed per recommended minimum installation requirements
<b>Sensor Temperature Accuracy:</b>	±0.1 °F
<b>Qty. Calibration Points per Sensor:</b>	6
<b>Velocity Calibration Range:</b>	0 to 4000 FPM
<b>Operating Temperature:</b>	-20 °F to 140 °F
<b>Operating Humidity:</b>	0 to 99% RH, non-condensing

NOTE: Damper construction is without blade and jamb seals, therefore, it is NOT intended for low-leakage or tight shut-off (isolation) applications.

### OPTIONAL CONSTRUCTION

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Probes mounted on the long side. | <input type="checkbox"/> Engraved identification tag. | Station to Transmitter Cable Length:<br><input type="checkbox"/> 25' <input type="checkbox"/> 50' <input type="checkbox"/> 100' |
| <input type="checkbox"/> Damper shaft on the long side.   | <input type="checkbox"/> Factory mounted transmitter. |   |

### DIMENSIONAL SPECIFICATIONS



P.O. Box 6358, Santa Rosa, CA 95406 (707) 544-2706  
 www.airmonitor.com     hvacsales@airmonitor.com