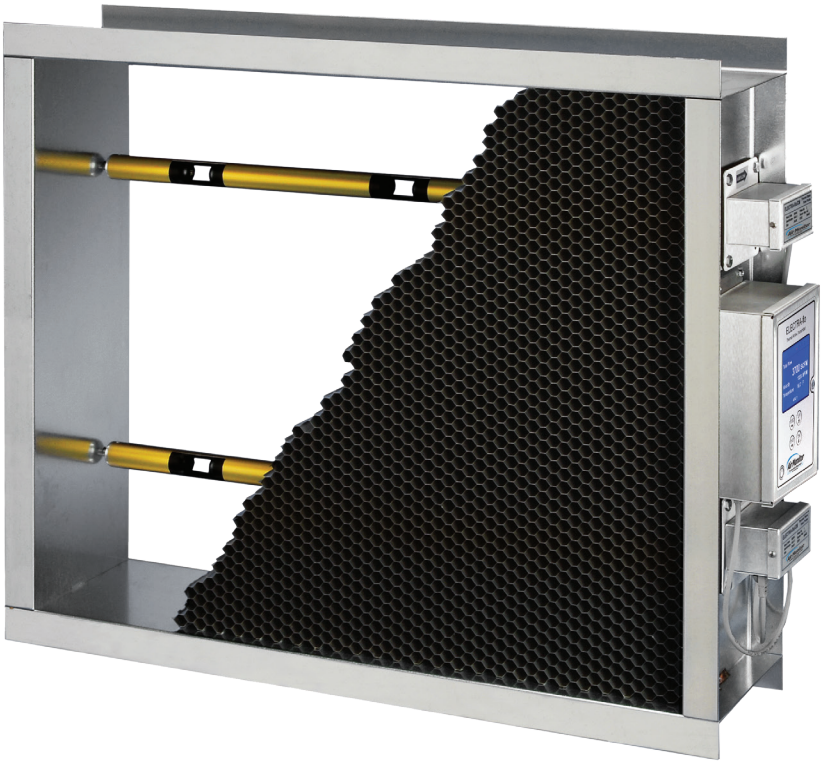
ELECTRA-flo/CM

Thermal Airflow Measuring Station

To assure high measurement accuracy (2-3% of actual flow or better) under extreme conditions caused by turbulent, rotating, and multi-directional airflows normally present near fan inlets or discharge ducts and directly downstream from duct elbows, transitions, etc., the ELECTRA-flo/CM uses a honeycomb air straightener to process the air into velocity vectors parallel with the duct's axis immediately upstream of the plane of measurement. This airflow processing sharply reduces the need for long, straight runs of duct before and after the station to obtain accurate flow measurement.



System Features

- 2% of reading sensor accuracy
- 0 to 5,000 FPM airflow measurement range
- Up to 32 measurement points per station
- Fully field serviceable sensors
- Rugged, anodized probe construction
- Optional LonWorks® communication protocol
- Dual analog outputs (4-20mA, 0-5VDC or 0-10VDC) for airflow and temperature
- High visibility backlit LCD can be mounted up to 100' from the station
- Individual sensor self-diagnostics
- Selectable display of individual sensor velocity and temperature
- Password protected membrane keypad for easy access to all transmitter functions
- Accuracy to within 2-3% of actual airflow
- Integral corrosion resistant 3003 aluminum honeycomb air straightener for stations located in highly disturbed airflow
- CFD (Computational Fluid Dynamics) and wind tunnel optimized sensor aperture design ensures accurate airflow measurement in angular flow conditions

Accurate airflow measurement for demanding applications

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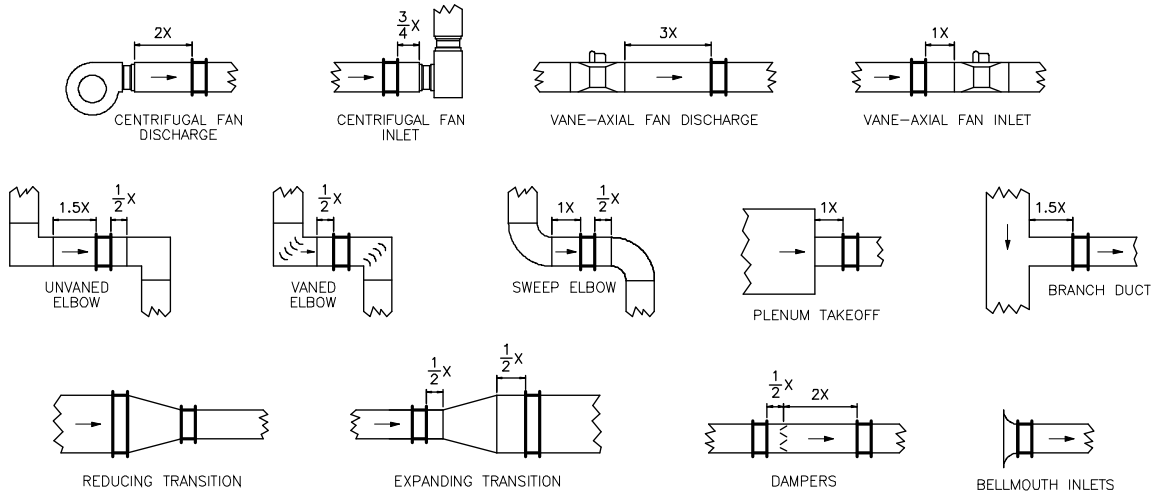
Air Monitor
Precision Airflow Measurement
An ONICON Brand

For additional information, refer to the ELECTRA-flo Plus Series product brochure.

ELECTRA-flo™/CM

Minimum Installation Requirements

These installation locations indicate the **minimum** clearance from a source of airflow disturbance. If more than the minimum is available, proportionally adjust the upstream and downstream clearances. Avoid locating the ELECTRA-flo/CM where it will be subjected to condensation from a coil or humidifier. Contact Air Monitor's Applications Engineering Department to discuss sub-minimum installation.



Probe & Sensor Quantities

The quantity of sensing points, in conjunction with adherence to minimum installation requirements, assures a system accuracy within 2-3% of actual airflow. The charts indicate the number of probes/sensors per probe in any size ELECTRA-flo/CM station.

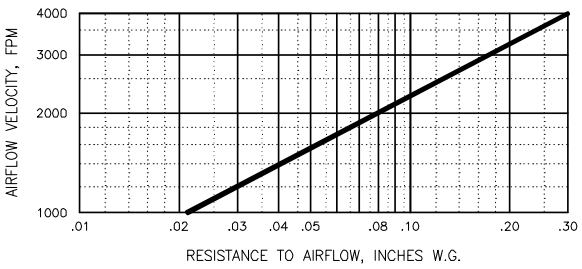
Duct Diameter	Number of Probes / Sensors Per Probe
8 to <12	1/1
12 to <18	1/2
18 to <36	2/2
36 to <48	2/4
48 to <60	2/6
60 to <90	3/6
90 to 120	4/6

Long Dimension in Inches

Short Dimension in Inches	12	18	24	30	36	42	48	54	60	72	84	96	120
12	1/2	1/2	1/3	1/3	1/3	1/4	1/4	1/5	1/5	1/6	1/7	1/8	1/8
18		2/2	2/3	2/3	2/3	2/4	2/4	2/5	2/5	2/6	2/7	2/8	2/8
24			2/3	2/3	2/3	2/4	2/4	2/5	2/5	2/6	2/7	2/8	2/8
30				2/3	2/3	2/4	2/4	2/5	2/5	2/6	2/7	2/8	2/8
36					3/3	3/4	3/4	3/5	3/5	3/6	3/7	3/8	3/8
42						3/4	3/4	3/5	3/5	3/6	3/7	3/8	3/8
48							3/4	3/5	3/5	3/6	3/7	3/8	3/8
54								3/5	3/5	3/6	3/7	3/8	3/8
60									4/5	4/6	4/7	4/8	4/8
72										4/6	4/7	4/8	4/8
84											4/7	4/8	4/8
96												4/8	4/8
120													4/8

Number of Probes / Sensors Per Probe

Negligible Airflow Resistance



The integral honeycomb airflow straightener allows the installation of the ELECTRA-flo/CM in adverse locations with minimal to no upstream or downstream straight run of ductwork. The non-restrictive nature of the honeycomb results in the extremely low resistance to airflow indicated in the Resistance vs. Airflow Velocity graph.

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