# **ELECTRA-flo G5 TRANSMITTER (Version 2.4)**

THERMAL AIRFLOW MEASURING SYSTEM

### STANDARD CONSTRUCTION

Maximum Number of Sensors:	32 per probe array or measuring station.		
Display:	Backlit, 1/4 VGA (320 x 240), color TFT LCD. 2.75" x 2.0" display size.		
Configuration Access:	Field programmable, menu driven user interface accessed via four button keypad. Field selectable in U.S. or S.I. units for velocity / flow and temperature. Password protected.		
Power Supply:	24VAC (20-28VAC) or 24VDC (20-40VDC), isolated and fused with reverse polarity protection.		
Power Consumption:	16 to 90VA, based on the quantity (1 to 32) of sensors in the probe array or station.		
Outputs:	Dual analog outputs, field selectable via menu for 0-5VDC, 0-10VDC, or 4-20mA. Single alarm output, field programmable.		
Analog Output Scaling:	Field programmable analog output scaling of airflow velocity and temperature. Velocity range for ducted applications: 0 to 4000 FPM for ELECTRA-flo/CM; 0 to 5000 FPM for Probe Arrays. Temperature range: 0 to 140°F.		
Analog Output Resolution:	0.02%		
Analog Output Filtering:	Field programmable over 10:1 range.		
Network Output Communication:	BACnet® or Modbus®.		
Humidity Limits:	0 to 99% RH, non-condensing.		
Temperature Limits:	-20°F to 180°F Storage; -20°F to 140°F Operating.		
Electrical Connections:	Terminal strips with plug-in connectors for field wiring. Probe to transmitter connection via shielded plenum rated cable with mini-DIN Snap & Lock connector.		
Enclosure:	NEMA 1 aluminum with hinged cover.		
Approvals:	UL 60730 pending; BTL pending; FCC Part 15 Subpart B, Class A Device.		

#### DIMENSIONAL INFORMATION



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### CONSTRUCTION OPTIONS

THERMAL AIRFLOW MEASURING SYSTEM



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AIRFLOW MEASUREMENT SOLUTIONS

## **VOLU-trol/E STATION** WITH OPPOSED BLADE DAMPER THERMAL AIRFLOW MEASURING SYSTEM

STANDARD CONSTRUCTION			
Casing: Flanges: Probe: Sensor Housing: Sensor Type:	<ul> <li>14 ga. galvanized sheet metal, intermittently welded, sealed wi</li> <li>1-1/2" wide, 90° formed flanges.</li> <li>Type 6063 anodized extruded aluminum. 1-1/8" diameter.</li> <li>Injection molded polycarbonate.</li> <li>Hermetically sealed, precision matched thermistors with laser to the second secon</li></ul>	ith metal caulking. trimmed resistive heating element	
Sensor Signal Processing: Probe Mounting: Probe to Probe Connection: Station to Transmitter Connection: Sensor Density: Damper Blades: Damper Bearings: Damper Linkage:	mounted in flow conditioning aperture. Microprocessor with 12 bit A/D conversion for each sensor not Externally mounted via 4" x 4" aluminum plate, with closed cell Integral plenum rated cable with mini-DIN Snap & Lock connec array connected serially in daisy chained configuration. Integral plenum rated cable with mini-DIN Snap & Lock connec ELECTRA-flo Probe Array Level 1. 14 ga. galvanized sheet metal, triple V-groove, opposed blade Bronze. Mechanical linkage, 12 ga. galvanized sheet metal.	de. I neoprene gasket. ctor for signal and power. Multiple probe ctor. Standard length 10'. , running parallel to the long dimension.	
PERFORMANCE SPECIFICATIONS Individual Sensor Accuracy: Station Accuracy: Sensor Temperature Accuracy: Qty. Calibration Points per Sensor: Velocity Calibration Range: Operating Temperature: Operating Humidity:	±2% of reading ±2 to 3% of flow when installed per recommended minimum installation requirements ±0.1 °F 6 0 to 5000 FPM -20 °F to 140 °F 0 to 99% RH, non-condensing	NOTE: Damper construction is without blade and jamb seals, therefore, it is <u>NOT</u> intended for low-leakage or tight shut-off (isolation) applications.	
OPTIONAL CONSTRUCTION         Probes mounted on the long side.       Engraved identification tag.         Damper shaft on the long side.       Factory mounted transmitter.			
DIMENSIONAL SPECIFICATIONS			
FLANGE (DAMPER	INLET VIEW R BLADES NOT SHOWN)	<u>SIDE VIEW</u>	
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## ELECTRA-flo Probe Array - Level 1 ELECTRA-flo/M Station - Level 1 ELECTRA-flo/CM Station- Level 2

## MINIMUM INSTALLATION REQUIREMENTS

**INSTALLATION CONSIDERATIONS.** Installation factors to be considered when applying the ELECTRA-flo Probe Array-Level 1, ELECTRA-flo/M Station-Level 1 or ELECTRA-flo/CM Station-Level 2 are as follows:

**Turbulent Airflow**. The distance between the airflow disturbance (i.e., fittings, transitions, etc.) and the installed location, as shown below, is the **minimum** requirement for installation to assure accurate airflow measurement. Wherever possible, the ELECTRA-flo Probe Array-Level 1, ELECTRA-flo/M Station-Level 1 or ELECTRA-flo/CM Station-Level 2 should be installed with longer runs of straight duct (or clearances) than shown.

**Airborne Contaminants.** The levels of air filtration and cleanliness associated with commercial HVAC Systems, whether supply/return/exhaust air, are satisfactory for operation of the ELECTRA-flo Probe Array-Level 1, ELECTRA-flo/M Station-Level 1 or ELECTRA-flo/CM Station-Level 2. Applications containing airborne contaminants may require periodic manual cleaning using compressed air and/or physical cleaning.

**Direction of Airflow.** To prevent improper installation, each ELECTRA-flo Probe Array-Level 1, ELECTRA-flo/M Station-Level 1 or ELECTRA-flo/CM Station-Level 2 is marked with an arrow indicating the required direction of airflow.



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