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| **The following language shall be used when specifying Air Flow Measuring Systems (AFM/AFMS). Provide air flow measuring system on supply and/or return ducts with the following features and specifications. Coordinate with Meters and Gages, section 230519.** |

* 1. Air Flow Measuring Systems (AFM/AFMS)
     + - 1. Air flow measuring system shall be thermal dispersion type, Ebtron, Gold Series (GP1) or equal.

Air flow measuring system operates based on the rate of heat transfer across the heated elements.

Sensor probes shall use two “bead-in-glass” thermistors to determine the airflow rate at each sensing point location. Probes shall be connected to a transmitter to calculate individual airflow prior to averaging and output to local DDC panels.

* 1. TECHNICAL SPECIFICATIONS
     + - 1. Sensor Accuracy:

Airflow Rate: ± 2% of reading, ± 0.25% repeatability.

Temperature: ± 0.15° F.

* + - * 1. Sensor Ranges:

Airflow Velocity: 0 to 5,000 FPM.

* + - * 1. Sensor Distribution:

Equal area.

* + - * 1. Sensor Assembly (Each Sensing Point):

Heated Element: One bead-in-glass, hermetically sealed, thermistor probe.

Sensor Housing: Glass-filled polypropylene.

Sensor Potting Material: Marine grade, waterproof epoxy.

Internal Wiring: Kynar® coated copper.

* + - * 1. Duct Sizes:

Standard: 8 inch to 120 inch.

* + - * 1. Tube Construction:

Aluminum: Gold anodized, 6063 aluminum alloy.

Stainless Steel: 315 polished stainless steel.

Nominal Tube Diameter: 1.1 inch (aluminum), 1.125 inch (316 ss).

Mounting Brackets: 304 stainless steel.

Mounting Styles: Insertion, internal or standoff.

* + - * 1. Cable Assembly:

Type: UL® plenum rated, PVC jacket.

Length: 10 feet (std.), 50 feet max.

Termination: 0.875 inch plug (transmitter end), gold plated pins.

* + - * 1. Compatible Transmitters:

GTA 116, GTN116, GTE116, and GRL116.

* + - * 1. Listings:

UL® 873 airflow & temperature indicating devices.

* + - * 1. Warranty:

36 months from shipment.