

# ELECTRA-fl<sub>o</sub> PROBE ARRAY

## INTERNALLY MOUNTED

## THERMAL AIR FLOW PROBE

# Ultra Series

**STANDARD CONSTRUCTION**

|   |   |
|---|---|
| <p>Probe.<br/>                 Sensor Assembly.<br/>                 Sensor Type.<br/>                 Sensor Signal Processing.<br/>                 Mounting.<br/>                 Probe to Junction Box Connection.</p> <p>Junction Box to Transmitter Signal Connection.<br/>                 Gasket.<br/>                 Probe Size Range.<br/>                 Maximum # of Sensors Per Probe.<br/>                 Maximum # of Probes Per Transmitter.<br/>                 Sensor Pattern.</p> <p>Sensors Per Probe Array, Rectangular Ducts.</p> | <p>Type 6063 anodized aluminum. 1-1/8" diameter.<br/>                 Injection molded polycarbonate.<br/>                 Sealed thermistor.<br/>                 Microprocessor in each sensor node, with 12 bit A/D conversion.<br/>                 Internal duct mounted via stainless steel brackets.<br/>                 Integral cable with RJ-45 connector. 2' to 10' long, depending upon duct dimensions.<br/>                 Multiple probes connect in serial configuration.<br/>                 Single cable with RJ-45 connector. Standard length 10'. Optional lengths 50' and 100'.<br/>                 Closed cell neoprene, 1/4" thick.<br/>                 8" to 120"<br/>                 16<br/>                 16<br/>                 On an equal area basis for rectangular probes. On an equal concentric area basis for circular probes.</p> |
|---|---|

| Station Area      | Sensor Density          |
|-------------------|-------------------------|
| 1 to <15 Sq. Ft.  | 1.33 Sq. Ft. per Sensor |
| 15 to <30 Sq. Ft. | 1.50 Sq. Ft. per Sensor |
| 30 to <60 Sq. Ft. | 1.75 Sq. Ft. per Sensor |
| 60 to 100 Sq. Ft. | 3.13 Sq. Ft. per Sensor |

**PERFORMANCE SPECIFICATIONS**

|  |                             |
|--|-----------------------------|
| Individual Sensor Accuracy.              | 2% of reading               |
| Station Accuracy.                        | 2-3% of flow                |
| Sensor Temperature Accuracy.             | ±0.1°F                      |
| Number of Calibration Points Per Sensor. | 6                           |
| Velocity Calibration Range.              | 0 to 5,000 FPM              |
| Humidity Range.                          | 0 to 95% RH, non condensing |

**DIMENSIONAL INFORMATION**

