

# ULTRAPROBE FIAMP

## Fan Inlet Airflow Measuring Probes

Accurate,  
Reliable,  
Repeatable  
Air Flow  
Measurement

SPEC EP-0031-4



ULTRAPROBE  
FIAMP  
(deep inlet)



ULTRAPROBE  
FIAMP  
(shallow inlet)

### ULTRAPROBE FIAMP

- Accurate and repeatable airflow measurement through fan inlets
- Incorporates multiple measuring points for equal area averaging of flows resulting in improved accuracy and reliability
- Sensors are constructed utilizing aluminum probes with a hard anodized finish
- Designed for complete installation from outside the fan
- Unique construction eliminates nonessential hardware that can cause buildup of dirt and foreign matter on the measuring assembly

### Specifications For Standard Units

**Accuracy:** +/-2%

**Temperature:** Maximum operating 400°F

**Minimum design flow:** 400 fpm

**Maximum design flow:** 12,000 fpm

**Pitot/static sensors:** Aluminum with hard anodized finish

**Process connections:** ¼-in. barb

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### Applications

**ULTRATECH ULTRAPROBE** Fan Inlet Airflow Measuring Probes (FIAMP) provide accurate, repeatable measurement of air movement through fan inlets. Lightweight, rugged construction coupled with ease of installation and economical pricing make these devices particularly applicable to the HVAC trade. Durable, quality construction ensures long-term, trouble-free operation. ULTRAPROBE FIAMPs are compatible with manometers, differential pressure gauges, and differential pressure transmitters used for airflow indication and control.

Designed for complete installation from outside the fan, this device is recommended when proper duct locations are not available. The sensor is effective at measuring gas and air flow, particularly dirt-filled, sooty or solid-bearing flows, when installed with ULTRATECH's purge-type flow or pressure transmitter systems.

Gas velocities often vary significantly across a fan inlet. Because single-point flow measuring devices read the velocity at one point only, errors in flow measurement are common. The ULTRAPROBE FIAMP has total and static pressure measuring points which are distributed for equal-area averaging of flows, resulting in improved accuracy and reliability.

### Description

ULTRAPROBE Fan Inlet Airflow Measuring Probes are designed per standard duct traverse requirements. These probes are designed to match the balancer's industry standard Pitot tube, including the method of static pressure measurement and distance between the total pressure and static pressure sensing holes.

The ULTRAPROBE FIAMP's use multiple averaging Pitots to determine total velocity and static pressure measurements. The FIAMP's unique construction eliminates nonessential hardware that can cause buildup of dirt and foreign matter on the measuring assembly.

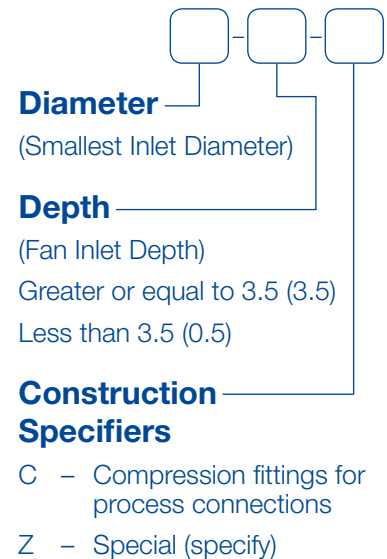
FIAMP's are available for most type of fans where a minor obstruction will not interfere with the fan's operation. All feature a sensor assembly that allows for duct expansion and contraction.

### Suggested Specifications

Fan Inlet Airflow Measuring Probes shall be of the multiple averaging Pitot/static sensor type with sensors distributed for equal-area averaging of flows. They shall be installed for a total Pitot traverse of the fan inlet. Internal Pitot/static sensors shall be constructed of aluminum with hard anodized finish. Instrument connections shall be 1/4" barb.

The fan inlet airflow measuring probe shall be ULTRAPROBE FIAMP, as manufactured by ULTRATECH INDUSTRIES, INC., Garner, NC, U.S.A.

### ULTRAPROBE FIAMP Ordering Information



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