



ULTRAPROBE FIAMP

Fan Inlet Airflow Measuring Probes

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. ULTRAC FIAMPs are compatible with manometers, differential pressure gauges, and differential pressure transmitters used for airflow indication and control.



FIAMP 8-12-0.5

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 FIAMPs 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.

Fiamps 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.



FIAMP 8-12-3.5

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" NPT Female.

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

SPECIFICATIONS FOR STANDARD UNITS

ACCURACY: +/- 2% (Note: field calibration may be required)

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: 1/4-in. NPT Female

ORDERING INFORMATION

ULTRAPROBE FIAMP - - -

DIAMETER (Smallest Inlet Diameter) _____

DEPTH (Fan Inlet Depth) _____

CONSTRUCTION SPECIFIERS _____

The diagram shows three labels on the left: 'DIAMETER (Smallest Inlet Diameter)', 'DEPTH (Fan Inlet Depth)', and 'CONSTRUCTION SPECIFIERS'. Lines from these labels connect to a product code structure on the right. The structure starts with 'ULTRAPROBE FIAMP' followed by three dashes. The first dash is connected to the 'DIAMETER' label, the second dash to the 'DEPTH' label, and the third dash to the 'CONSTRUCTION SPECIFIERS' label.

C - Compression fittings for process connections

Z - Special (specify)