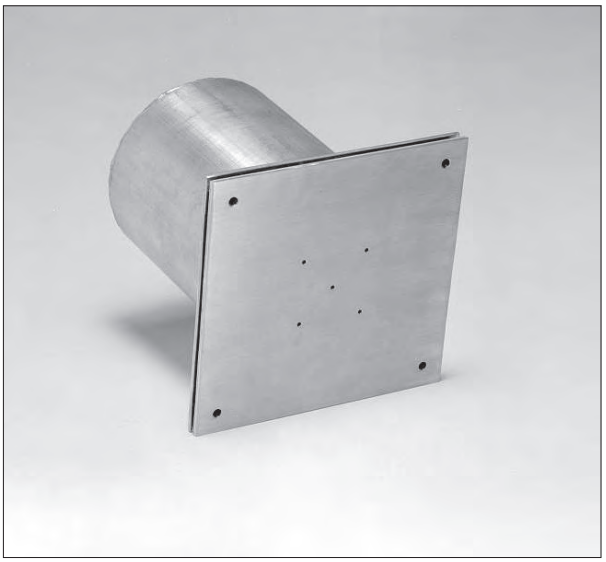
ULTRATECH INDUSTRIES, INC.

ULTRAC DSP
Duct Pressure Sensor

APPLICATIONS

The ULTRAC Duct Pressure Sensor (DSP) provides accurate sensing of static pressure in a duct or plenum 6" or larger. Turbulent, multi-directional air flow, common to inlet and discharge plenums of fans and air-handling units, often causes inaccurate readings by standard, flow-oriented, static pressure sensors. The DSP damps fluctuations caused by rapid air movement through the plenum or duct. When the ULTRAC DSP is used in conjunction with the appropriate pressure transmitter or indicator, precise pressure measurement and control are attained.



ULTRAC DSP-AL

INSTALLATION

The DSP Sensor may be mounted anywhere in the duct or plenum. The typical application requires two sensors mounted opposite one another. On a variable air volume system, the DSPs are usually mounted two-thirds of the distance down the longest duct run. The design of the DSP allows for installation either during duct application or after ductwork is complete. Sensor connections are made at the job site.

Four sheet metal screws mount the DSP around any hole with a diameter between 3" and 5.5". The DSP includes a bushing that allows connection to a 1/4" NPT or 1/2" female. The DSP is designed to mount on a flat surface. If a flat surface is not available, as with a round duct, a static pressure sensor (Model ULTRAC PMS, SPT, or STK-LP) can be substituted.

Standard models are manufactured of aluminum or 304 stainless steel. Specify Model DSP-AL or DSP-SS. For special units of other materials or designs, please contact ULTRATECH.

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