

## "EZ Flow" Velocity Tubes

The flow passages of Models IB, CI, SI, and DF silencers are true venturi channels and may be used for flow measurement, thereby eliminating the need for a separate venturi. The Aeroacoustic Corporation supplies, on special order, IB, CI, SI, and DF silencers with built in velocity tubes. The E-Z Flow Velocity Tube is designed for measuring the airflow velocity with higher sensitivity and self-averaging of flow velocity readings. This is made up of dual tubes. The front tube, defined as Pt, measures total pressure and the back tube, defined as Px, measures the drag loss plus the static pressure.



## Advantages of "EZ Flow" Velocity Tubes

- 1. Higher sensitivity of velocity readings. The sensitivity is 1.7 times higher than a pitot tube.
- 2. The velocity tube has 1/3 the pressure drop of a piezometer tube.
- 3. The velocity tube can be used at the discharge flow of our silencers or ductwork. Piezometer tubes can only be used on inlet silencers.
- 4. The velocity tubes can be used on ducted systems. Piezometer tubes can only be used on nonducted inlets.



## "EZ Flow" Velocity Tube Installation

"EZ Flow" Velocity Tubes inserted into Aeroacoustic silencers require one simple step before use: connect the velocity tube to a differential pressure gage (<u>Not Supplied</u>). The front tube, Pt, is connected to the positive pressure side of the gage. The back tube, Px, is connected to the negative pressure side of the gage. Gages, with a range of 0-2.0 inches of water, work well with lower CFM fans (Dwyer Differential Pressure Transmitter Model #604D-1 with 4-20mA output). On Higher CFM applications, a gage with a range from 0-10 inches of water should be used (Dwyer Model #604D-2). Minihelic differential pressure transmitters to match the silencer's CFM may be ordered with velocity tube from Aeroacoustic or directly from Dwyer Instruments, Inc.



"Building For a Quieter Tomorrow"