



203-3 (24) V Series Transducer

Description

The 203-3 (24) V Series electronic transducers are designed to accept pneumatic velocity pressure inputs, and directly convert the signals to DC volts outputs. The output signal is proportional over the range of 0 – 4000 FPM and either a 11.0 to 16.5V DC or 11.0 to 16.5mA DC signal.

The selection of the type and design of pickup probe determines the flow (FPM) transduced as a volts output signal.

Velocity (flow) signals are developed by using a velocity pressure differential as derived by sensing total pressure and static pressure. The differential pressure (velocity pressure) causes a flow of calibrated air to be sampled from the air distribution system.

Pickup tubing length or routing may affect output signals. See 203-3 (24) V Series Installation & Operation Instructions for requirements and limitations.

The use of velocity pressure differential pickup probes afford calibrated flow signals when Hoffman Controls probes are used. Other typical single point or averaging design pickup probes may be utilized; calibration curves of flow in V DC will be required for the type and design used.

The transducer requires a non-interrupted 24V AC power supply. Transducers are factory pre-calibrated and do not require any field adjustment.

The on-board transducer is flow temperature compensated. Although the standard model has been selected to develop flow output signals over the range, the transducer orifice may be individually selected to provide a variety of outputs for other ranges.

Specifications

Model – 203-3 (24) V	Velocity Pressure
Volts, Input (nominal)	24V AC
Power @24V AC	1VA
Frequency	50/60 Hz
Velocity Span	0 – 4000 FPM
Output	
Terminal 3 – 5	11.0 – 16.5V DC
Minimum Load Resistance	10K
Terminal 4 – 5	11.0 – 16.5mA DC
Load Resistance	0 – 500 Ohms
Accuracy	± 5%
Repeatability	± 2%
Operating Temperature	+40°F to +120°F
Storage	0° – 120°F
Humidity (Non Condensing)	5% – 95% RH