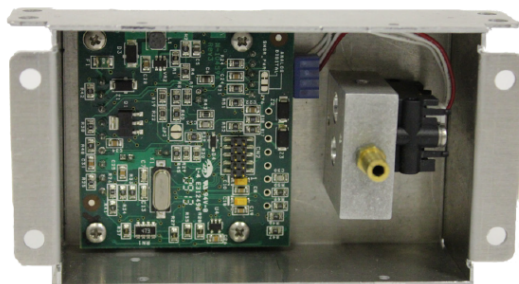

Description

Figure 1: Digital Sidewall Sensor



Figure 2: Interior view



The Digital Sidewall Sensor is a mass flow sensor designed to measure hood pressure as air is pulled from outside the hood to inside the hood. Flow direction ensures no hood contaminants enter the sensor.

Patented CMOSens sensor technology combines sensor element, signal processing, and digital calibration on a single microchip for unmatched performance.

The highly sensitive fourth generation silicon chip requires only a minuscule amount of flow to provide amazing accuracy.

Fast response times, to within 4.6 ms, maintain velocity within safe levels to minimize hood turbulence while ensuring containment.

Use the sidewall sensor in conjunction with a sash sensor for controlling or monitoring. The sidewall sensor offers superior dynamic range and long term stability when you compare it to membrane based sensors.

Product code guide: HMS-DIGSENSOR

Features

- All digital processing of pressure
- Analog output to pressure signal
- Simple hook up to controller
- Can be used in conjunction with a sash sensor
- No offset drift
- Excellent repeatability

Figure 3: Digital sensor and Controller board

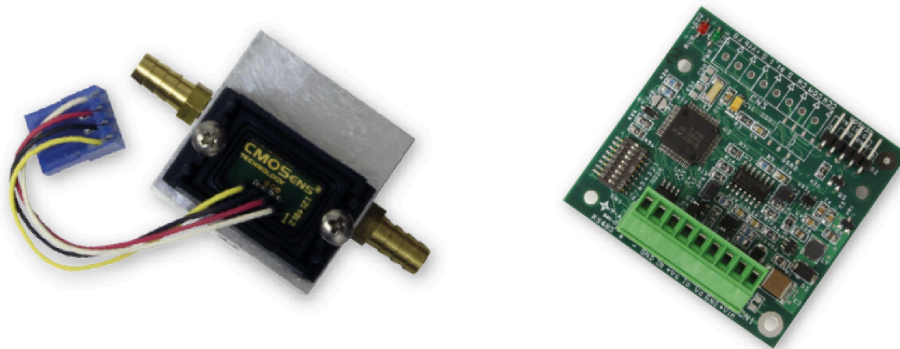
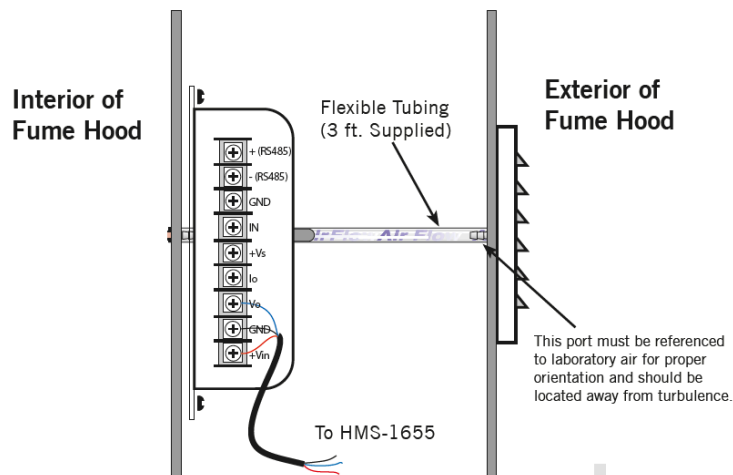


Figure 4: Digital Sidewall Sensor mounting



Performance data

Table 1: Performance data

Performance data	Measurement
Calibrated Range	1.6 Pa
Measurement Range	1.6 Pa
Temperature Compensation	Yes
Resolution	14 bits preset
Zero Point Accuracy	±0.001 Pa
Span Accuracy	±0.001 Pa
Zero Point Reliability	±0.001 Pa
Span Repeatability	None (less than resolution)
Offset Shift Due to Temp Variation	<0.5% of reading per 10° C
Span Shift Due to Temp Variation	<0.1 Pa/year
Response Time	4.6 ms typical

 **Note:** Product specifications are subject to change without notice.

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable end-user license, open-source software information, and other terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Patents

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