

POS-100

Sash Position Sensor

Data Sheet



POS-100 Sash Position Sensor

Provided as an extra safety option to the Triatek HMS Fume Hood Controller, the POS-100 Sash Position Sensor adds a feed forward approach to the HMS, and responds to changes in airflow caused by a change in fume hood sash position.

The sensor can be configured with the HMS to operate with the sash configurations found on most fume hoods. Combined with the HMS, the POS-100 provides the fastest and safest approach to attaining face velocity setpoint.

The POS-100 responds directly to changes in the sash opening to achieve calibrated airflow requirements instantaneously.

The HMS controller uses a closed loop sidewall sensor to further fine tune the airflow until the proper airflow setpoint has been achieved.

FEATURES INCLUDE

- Configurable for most any fume hood or sash
- Instantaneous response
- Provides an additional level of safety
- Stainless steel cable, nylon coated coupled to a ten-turn precision potentiometer
- Sash proportional 0-10,000 ohm output
- 18 AWG three-wire signal cable
- Can be surface mounted or mounted on the top of the fume hood cabinet

POS-100 Specifications	
Sensing Device	Multiturn Precision Potentiometer
Potentiometer Value	10k ohm
Cable	0.018" (0.46 mm) jacketed stainless steel
Resolution	Essentially infinite
Linearity	±0.25%
Repeatability	±0.03%
Cable Nominal Breaking Strength	40 lbs
Ranges to 4.7"	1,000,000 full stroke cycles
Ranges 30" to 50"	123,000 full stroke cycles
Retraction Force	0.3 - 0.75 lbf.
Input Impedance	10k - 0 Ω
Output Impedance	Ω 0 -10k
Control Signal Wire Size	18 AWG minimum
Operating Temperature	0° to 140° F or -18° to 60° C
Operating Humidity	95% R.H. max. non-condensing

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Note: Fully extending the sash cable and allowing it to snap back could damage the sensor. In addition, the 18 AWG wiring extending from the sensor should never be pulled or tugged.

Part Number

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