KAL-L THERMAL AIR FLOW SWITCH



Pressure
Level
Temperature
measurement
monitoring
control



- Negligible Pressure Loss
- No Moving Parts
- Adjustable Response Time
- Temperature Compensated
- Easy to Install



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Model: KAL-L



The Kobold KAL-L flow switch allows rapid detection of flow rate change of non-hazardous gases. Fast reaction times are guaranteed by the KAL-L's analog electronic design. Through use of two RTDs... one to sense flow and the other to detect ambient temperature, the switch can compensate for thermal changes in its surroundings. This "smart" behavior minimizes erroneous switching due to spurious changes caused by things such as the weather.

Any conceivable pipe size can be accommodated by the KAL-L's insertion style design. Knowledge of the flow velocity in your system is all that you need to make the KAL-L work.



Range: 3.3 - 66 ft/sec

@20°C, 14.5 PSIA (restricted span for other pressure and

temperature conditions)

Switchpoint: potentiometer

adjustable

Accuracy: $\pm 10\%$ of flow rate

Reproducibility: ±1% of flow rate

Display

Flow Rate: 8-LED flow trend Switch Status: two-color LED Maximum Temperature Gradient

> 30°K(°C)/min @ 8m/s, 90°C

Response Time: 1 to 60 sec

(adjustable)

Warm-up Time: 30 sec Maximum Pressure: 120 PSIG

Maximum Temperature

Process: -10°F to +250°F Ambient: +15°F to +140°F Wetted Parts: Ni-plated brass

Housing Material: Nylon

Electrical Data

Power Supply: 24 VDC/VAC

-15%/+10%

1,000 VA

Switch: Qty. 1 - SPDT
Max. Voltage: 250 VAC
Max. Current: 4 A

Max. Power: Wiring Connector

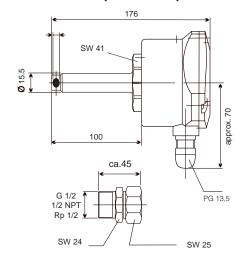
Standard: PG13.5 cable gland
Optional: 1/2" NPT conduit

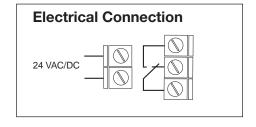
Protection: NEMA 4



KOBOLD KAL-L Flow Switch

Dimensions (millimeter)





KAL-L Ordering Information

Fitting	Order Number
1/2" NPT	KAL-8115
2-Bolt Flange	KAL-8115FL
Smooth Shank	KAL-8100
Options: -C: Conduit Hub -M12: Quick disconnect	