

S100 Quickstart



Thank you for your purchase of degreeC's S100 airflow switch. Please consider our complete line of airflow sensors, visualization, and alarm products, at www.degreeC.com.

The S100 is the most robust, high-performance switch on the market, setting a new standard for flexible integration and in-the-field tuning. Refer to the product manual on our website, for more detailed information.

- Determine the mounting location and note the direction of airflow marked on the sensor.
- Select the appropriate mounting bracket. Two styles are provided, and both may be mounted on either side of the sensor flange. For a permanent connection, a plastic adhesive may be used.
- The S100 is a 4-wire device, with 2 wires for power and 2 wires for the alarm output. It employs push-wire connections for fast and easy termination. 20-26AWG solid core wire with a maximum insulation diameter of 1.6mm [0.06in] is recommended. Wire insulation strip length is recommended to be 3.5mm [0.14in] to 4.5mm [0.18in]. The alarm output relay is rated for 250VAC, 2A, 125VA Max or 220VDC, 2A, 60W Max. Mount the S100 and make wiring connections. With mounting and wiring complete, ensure airflow is at the desired velocity.
- Apply power, and note the following:
 - The LED indicator lights green upon startup for approximately 10 seconds to indicate that the switch is powered.
 - The LED indicator then lights green for good airflow or red for an alarm condition (blinking red for low flow, solid red for sensor error).
- Set the velocity trip point by adjusting the potentiometer CW and CCW (clockwise and counterclockwise) to zero in on it:

When the potentiometer is first turned, it initiates a 10 second internal timer and the LED blinks green 3-4 times to indicate that trip point set mode is active. While in set point mode, the 10 second timer will restart whenever the potentiometer is turned. When the 10 second timer expires, the LED blinks green again to confirm that the trip point has been set.

 - If the LED indicator remains green after power up:
 - Turn the potentiometer slowly CW until the LED blinks red, for an alarm condition.
 - Turn the potentiometer again slowly CCW until the LED lights green.
 - If the LED indicator blinks red after power up, turn the potentiometer slowly CCW until the LED lights green.



The S100 airflow monitor is now commissioned and ready for operation. The S100 goes into alarm when the flow drops below the set point for 10 seconds or more. It will automatically clear the alarm if flow rises 15% or more above the trip point, for more than 10 seconds.