

Rooster™ Airflow Alarm Monitor

applications

- Critical Containment
- Biosafety Cabinets
- Fume Hoods
- Glovebox Isolators
- Flow Benches
- Autoclaves
- Ventilation Workstations
- Compounding Aseptic Isolators
- Restricted Access Barriers
- Vivarium Interiors
- Animal Workstations
- Pharmaceutical Manufacturing
- Clean Rooms
- Airlocks
- Containerized Laboratories

Degree Controls, Inc.

is an ISO-9001 certified world-class Designer and Turn-Key Manufacturer of control solutions for progressive technology industries. With over 15 years of proven experience, we pride ourselves in delivering solutions to our customers that provide the differentiation they need for their rapidly changing competitive landscape.

description

Designed to provide the safety and compliance you need for BSC's and Fume Hoods that do not meet current NSF & OSHA regulations – or to add that layer of security needed for your laboratory technicians. The Rooster Alarm Monitor provides full time tracking of air velocities within your cabinet or exhaust system to ensure air movement never falls below the user-defined thresholds. In the alert mode, a highly visible red LED light will flash and the volume-adjustable audio alert will announce. The Rooster is easily reset with the illuminated button. This reset can be defined by EH&S Facility management to be either latching or repeatable based on your laboratory's policy. The Rooster™ represents next generation airflow alarm technology, combining a rich set of customizable features with unprecedented ease of installation and configuration.

Simple 10 minute installation with flexible mounting options and airflow turbulence indicator assures perfect placement of the remote sensor. Whether you need the exhaust duct-mounted probe sensor for your Class II biosafety cabinet, the Fume Hood sidewall sash-flow sensor, or the in-line retro-fit replacement sensor for noncompliant monitors, each option easily plugs into the Rooster Alarm Module via the RJ-11 plug. Sensor calibration is performed with a single button press while your containment unit is operating. When you see the green LED, your Rooster is up and running.

features

- Single push button for airflow calibration
- User configurable Alarm Threshold (preset NSF/ANSI-49 required -20%)
- Audible and visual alarm functions
- Customizable audible alarm tones
- Customizable warning lights
- Latching or resettable alarm
- Accurate! ±2% Repeatability of measured value
- Auxiliary relay output for communication & control
- Hardwired or plug-in power supply
- Embedded or temporary installation
- Private labelling options available for certifiers



Choice of three sensors:

- BSC Class II exhaust duct canopies
- Fume Hood sidewall
- Retro fit in-line replacements

Customize your Rooster's performance !

DIP switch One

Method of calibration for Alarm Triggers

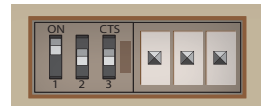
- OFF - Alarm threshold is set at -20% of operational airflow, when BSC or Fume Hood is running at proper flow rate.
- ON - Establish airflow rate at 80% of operational airflow, set Alarm threshold, increase BSC or Fume Hood to proper flow rate.

DIP switch TWO

- OFF - Alarm is latched, must be reset by EH&S facility member.
- ON - Alarm will auto-reset (deactivate) when proper airflow conditions return.

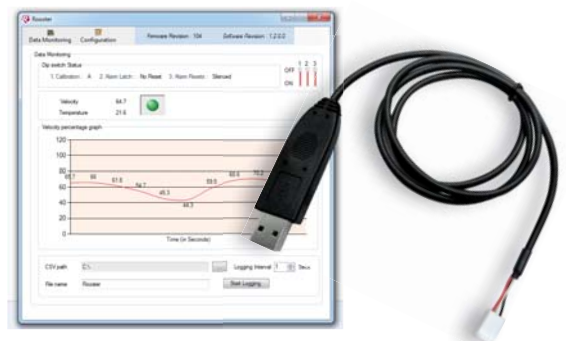
DIP switch Three

- OFF - Audible alarm is silenced when RESET button is pressed
- ON - Audible alarm will ringback when silenced by RESET button after 120 seconds.



options

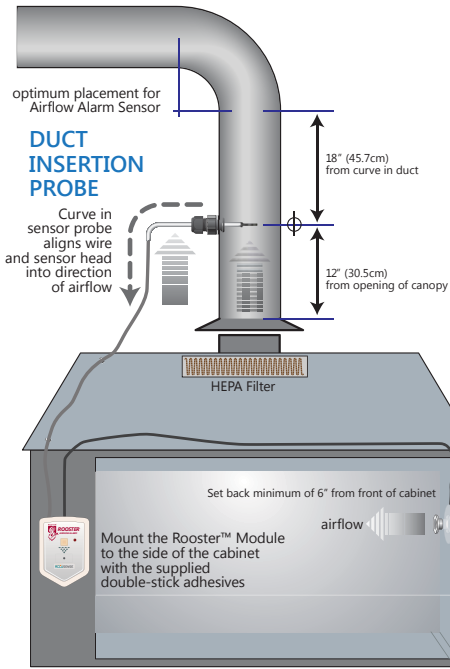
Most of the user features can be set with the DIP switches found on the back of the Rooster module. Refer to the Quick Start Guide for more information. In-field feature programming and the ability to use the Rooster as a real-time airflow meter can be achieved by using a Windows® PC computer with a USB connection to the Rooster Module. The optional cable and Rooster software is available through DegreeC Customer Support.



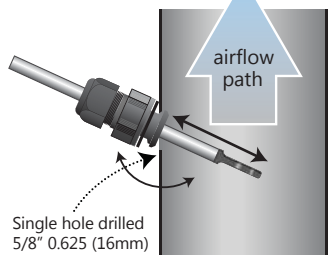
Optional Programming Cable & Rooster™ Software
P/N 62300AS008-R00 4-pin flying lead cable assembly

Rooster™ Airflow Alarm Monitor

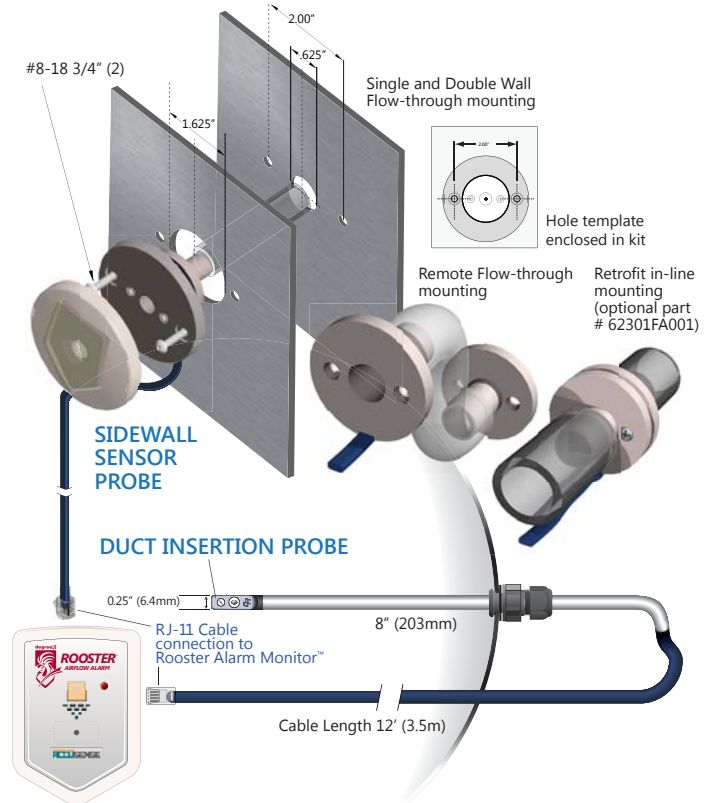
Sensor Mounting Options



Optional Gland Nut Installation



Drill 5/8" 0.625 (16mm) hole.
Adjust insertion depth and tighten gland nut onto sensor probe.
Insert into duct hole, with wider flange first, then rotate into position.
Tighten mounting nut in left-hand direction.
Make sure the sensor head faces airflow by positioning the probe elbow in the flow direction.



Duct Mounted Probe Sensor

Use in exhaust flow for Class II A or B duct systems. Each Rooster sensor comes with a Quick Start Guide and all the hardware you need for this simple installation including:

- Sensor Probe, adjustable length for 6" - 12" (15.2mm - 30mm) ducts
- Mounting bracket, gaskets, and hole template
- Self-taping screws and wire ties
- 12' (3.5M) cable with RJ-11 connection plug

Sidewall Flow-through Sensor

Use for Fume Hoods and Pressurized Rooms. Engineered to make installation and cleaning

as simple as possible, the flow-through sensor head features a small form factor, and a removable face plate for easy maintenance. Each Rooster sensor comes with a Quick Start Guide and all the hardware you need for this simple installation including:

- Sensor bracket with face plate
- Replaceable protective screen
- Universal mounting hole pattern
- Gaskets and Self-taping screws
- 24" (600mm) PVC hose to reach interior pressure area
- 4' (1.2M) cable and RJ-11 connection plug

In-Line Retro Fit Sensor

Use for installation in place of other sensor systems or in places where flow tubes have been used in the past.

Fits 0.5" inside dimension (ID) tubes, and comes with 24" of PVC tubing that can be easily cut to size. Each Rooster sensor comes with a Quick Start Guide and all the hardware you need for this simple installation including:

- In-line sensor module
- 24" (600mm) 1/2" ID Tubing
- 4' (1.2M) cable and RJ-11 connection plug

specifications

Operating temperature 60°F-140°F (15°C-60°C)
Storage temperature -40°F-185°F (-40°C-85°C)

Relative humidity(non-condensing) 5-95%
Airflow Velocity Range 40-2,000 fpm
(0.2 - 10.0 m/s)

Response time < 1 second
Supply voltage 12-24 VDC
110vAC Power Adapter Included
Input Current 0.5A max

Hardwired Power Connection 24vDC

Pin 1 - 16-24v AC/DC Power
Pin 2 - AC/DC power
Pin 3 - Normally Open (5A max)
Pin 4 - Com
Pin 5 - Normally Closed (5A max)

Alarm Indicators LED light & Audible Piezo
Turbulence Warning Flashing Yellow LED Rest Switch
System Failure Red Flashing LED
System Healthy Green Solid LED