degreeC™

DEGREE CONTROLS,INC.

Your Partner for Airflow Sensing & Controls

Rooster™ Monitor100

Applications

- Chemical Fume Hoods
- Laminar Flow Hoods
- Biosafety Cabinetry
- Clean Room Monitoring
- Building Management
- Critical Containment

Overview

The Rooster™ Monitor100 is the next-generation airflow monitor for chemical fume hoods. With a glove-friendly, color touch-screen and on-screen messaging, the Monitor100 is intuitive and requires virtually no training. Using temperature compensated, Degree Controls' instrumentation-class air velocity sensing, calibration is faster, more accurate, and more reliable.

Built according to industry feedback, users will find they do not need to continually refer to a manual to operate. The GUI guides the operator through procedures with on-screen instructions. Users can also add laboratory specific information, such as Safety Officer phone numbers and unique asset tags.

User's preferences can be uploaded/downloaded via USB. Importing the configuration file to other Monitor100s in your facility saves valuable setup time and ensures operational consistency. The built-in USB port also allows firmware updates to protect your investment, as well as USB export of event data logging for compliance record keeping.

Single and multiple event alarms are clearly displayed to the user, and the INFO button allows instant access to calibration date, alarm thresholds, and other critical system information. The Monitor100 conveys status by updating the background color of the screen, and critical safety alarms are augmented with a blinking LED. Dual password protection allows users to personalize operational experience, but not override safety features set by facility managers.

Powered by supplied wall adapter or 24VAC/VDC cabinet supply, the Monitor100 accepts a sidewall flow-through sensor for negatively pressurized cabinets and an insertion probe for exhaust ducts. Sophisticated controls include, sash alarm, night setback, remote signaling, latching and ring-back control, display resolution, and unit of measure updates.

Specifications

Alarm Module Size	82mm x 135mm x 19mm (3.2" x 5.3" x 0.7")
LCD Display Area	57mm x 70mm (2.3" x 2.7")
Air Velocity Range	0.15 - 20.0 m/s (30-4,000 fpm)
Velocity Repeatability	1% (NSF/ANSI-49 Requirement)
Response Time	< 1 second
Supply Voltage	24 VAC/VDC & Wall Adapter
Red LED Indicator	160° viewing angle
Alarm Volume	0 - 85dB (adjustable)
Relative Humidity	5 - 95% (non-condensing)
Operating Temperature	5°C - 60°C (40°F - 140°F)
Storage Temperature	-40°C - 85°C (-40°F - 185°F)
Compliance Standards	CE, RoHS
Rooster™ Package Size	14" x 12" x 4" (36cm x 30cm x 10cm)
Rooster™ Package Weight	3 lbs (1.4kg)

Degree Controls, Inc.

is an ISO-9001 certified, world-class designer and manufacturer of airflow sensing, monitoring, and control solutions. With over 25 years of proven experience, we pride ourselves on delivering solutions which provide the value, differentiation, and service required by our customers, to meet the rapidly changing competitive landscape that they face.

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NOVA INSTRUMENTS

Features

- Glove-friendly, color touch panel display, with intuitive interface and user messaging.
- Whole-screen background colorization to convey current state, augmented by flashing red LED while in alarm state.
- Configurable alarm tones.
- Instrumentation-class sensor, compatible with latest NSF/ANSI-49 requirements for repeatability and high accuracy calibration.
- Accepts sidewall sensor for negatively pressurized cabinets, insertion probe for exhaust ducts and inline retrofit design to replace legacy airflow alarm monitors.
- Full temperature compensation built-in for accuracy across wide operating temperature range.
- Air temperature sensing included and displayed on-screen.
- Wide velocity range capability, for use in face-velocity or duct-velocity applications.
- Fast and intuitive set-up, with no need to have manual on hand.
- Dual password protection allows users to personalize operational experience, but not override safety features set by facility managers.
- On screen messaging, to alert multiple simultaneous alarms, and real-time latching/mute conditions.
- INFO button for instant access to calibration date and current system configuration.
- Power fail protection to retain settings in case of power mains failure.
- Output relays for remote monitoring of airflow alarms, sash alarms, and remote initiation of night setback.
- Night setback airflow settings to manage laboratory air exchange using your chemical fume hood – your most energy efficient option.
- USB keyboard compatible, for user based information and alphanumeric asset tagging.
- User's preferences can be uploaded/downloaded via USB saving setup time and ensuring operational consistency.
- Firmware upgrades through the USB port to future-proof your investment.
- Event data logging can be viewed on screen and exported to a USB drive for compliance record keeping.

Part Number Format

TC62310-S-P-B

S = **Sensor Selection**
1 = Sidewall Sensor
2 = Inline Sensor
3 = Probe Sensor

P = **Power Supply Option**
1 = US Power Supply
2 = EU Power Supply

B = **Mounting Plate Option**
1 = Wall Mount Option
2 = Semi-Flush Mount Option

Optional Sash Switch available:
Part # 62310AS004

Call Degree Controls today to discuss private labeling, custom screens, and other available customizations.

Monitor Mounting Options

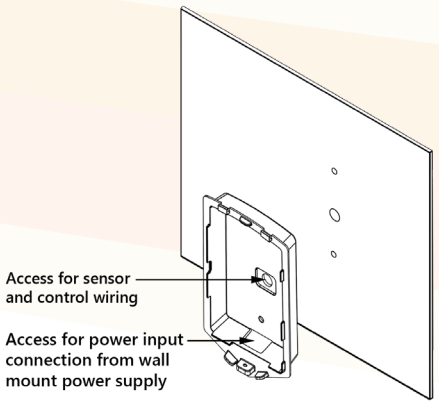
The Monitor100 is mounted in two steps. First, the backplate is mounted to the cabinet or electrical box, and the wires are pulled through and connectorized. The connectors are then plugged into the Monitor100, and the front bezel assembly is easily aligned to the backplate and secured with bottom captive screw.

Sensor Mounting Options

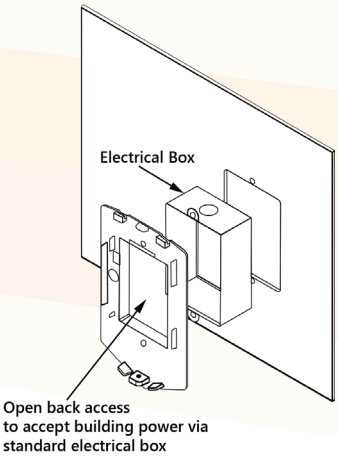
- Sidewall sensor is designed to be mounted to the exterior surface of the cabinet, and can be used with the supplied ducting to create an airflow path from the front face, to the inside face of the cabinet. Includes removable and washable air screen.

- Inline sensor is designed for retrofit of failed legacy products, or those which are no longer accurate enough for new standards. The Inline sensor is mounted inside the cabinet plenum area to increase the tamper-resistance of the sensor element. It can be used with the washable filter from the Sidewall sensor.

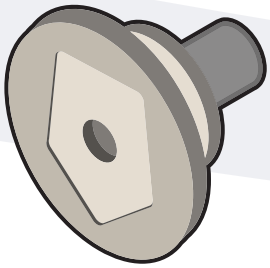
- Duct mounted Probe sensor is for use in exhaust flow for Class II A or B duct systems. Each Rooster™ sensor comes with a Quick Start Guide and all the hardware you need.



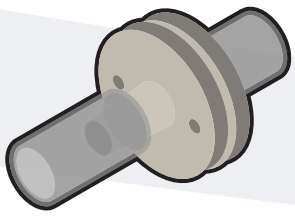
Wall Mount Option



Semi-Flush Mount Option



Sidewall Sensor



Inline Sensor

Probe Sensor