

Rooster Monitor100

Applications

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

Overview

The **Rooster Monitor 100** is an advanced airflow monitor for chemical fume hoods and biosafety cabinets. Featuring a glove-friendly color touchscreen, intuitive interface, and on-screen messaging, it is easy to operate and requires minimal training.

Powered by **Degree Controls' instrumentation-class, temperature-compensated air velocity sensing technology**, the Monitor100 delivers fast, accurate airflow monitoring and calibration. Designed with industry feedback, the intuitive GUI guides users through setup and operation with clear on-screen instructions.

Laboratories can customize the monitor with safety contacts and asset tags. USB-based configuration management enables quick replication of settings across multiple units, while the integrated USB port supports firmware updates and event log exports for compliance recordkeeping.

Color-coded status displays and on-screen notifications provide clear indication of operating conditions. The INFO button offers quick access to calibration dates, alarm thresholds, and system settings. Dual-level password protection helps prevent unauthorized changes to safety parameters.

The Monitor100 supports sidewall sensors and duct probes and can be powered by the included adapter or a 24 VAC/VDC source. Additional features include sash alarm monitoring, night setback mode, remote signaling, alarm latching and ring-back control, configurable units of measure, and event data logging.

Combining advanced airflow sensing with an intuitive user experience, the Rooster Monitor100 helps laboratories improve safety, operational consistency, and regulatory compliance.



Specifications

Alarm Module Size	86mm x 139mm x 14mm (3.3" x 5.4" x 0.5")
LCD Display Area	67mm x 114mm (2.6" x 4.4")
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
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	12.7" x 12.7" x 5" (32cm x 32cm x 12cm)
Rooster Package Weight	3 lbs (1.4kg)

DegreeC

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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Features

- Glove-friendly, color touch panel display, with intuitive interface and user messaging.
- Whole-screen background colorization to convey current 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-C keyboard compatible, for user based information and alphanumeric asset tagging.
- User's preferences can be uploaded/downloaded via USB-C saving setup time and ensuring operational consistency.
- Firmware upgrades through the USB-C 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

Black - TC550000-S-P-B

White - TC550001-S-P-B

S = Sensor Selection

- 1 = Sidewall Sensor
- 2 = Inline Sensor
- 3 = Probe Sensor

Optional Sash Switch available:

Part # 550000AS004

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
- 3 = Semi-Flush Mount Option

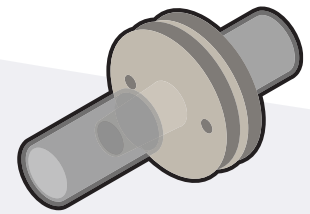
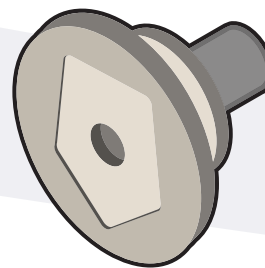
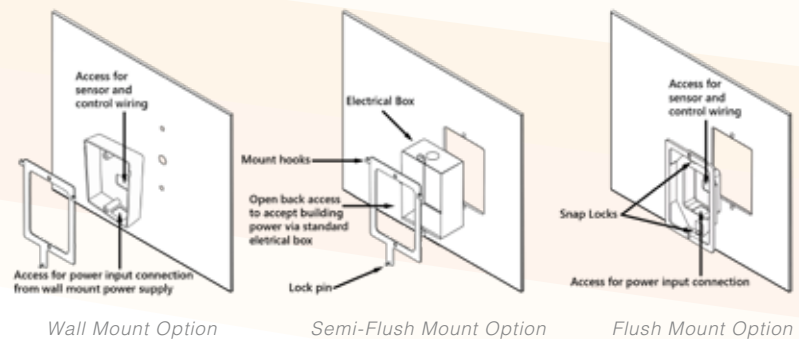
Call Degree Controls today to discuss private labeling, custom screens, and other available customizations.

Monitor Mounting Options

The Monitor100 is installed in two simple steps. First, the backplate is mounted to the cabinet or electrical box, and all wiring is routed through and terminated. The connectors are then attached to the Monitor100, and the Monitor 100 assembly is aligned at an angle with the backplate and secured using the dial located on the bottom of the unit.

Sensor Mounting Options

- **Sidewall Sensor:** Designed for exterior cabinet mounting, the Sidewall Sensor uses the supplied tubing to create an airflow path from the cabinet face opening to the interior. A removable, washable air screen is included for easy maintenance.
- **Inline Sensor:** Designed to retrofit failed or outdated airflow monitors that no longer meet current standards. The Inline Sensor mounts within the cabinet plenum for increased tamper resistance and can be used with the washable filter supplied with the Sidewall Sensor.
- **Duct-Mounted Probe Sensor:** Designed for exhaust airflow monitoring in Class II Type A and Type B ducted systems. Every Rooster sensor includes a Quick Start Guide and all required installation hardware.



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