

Rooster™ Pressure100

Applications

- Pharmaceutical Manufacturing
- Laboratories
- Vivariums
- Hospital Rooms
- Clean Room Monitoring
- Environmental Monitoring & Alarms
- Building Management Systems
- Semiconductor Manufacturing

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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Overview

The Rooster™ Pressure100 from Degree Controls is an advanced differential pressure monitor and alarm designed for cleanrooms, pharmacies, laboratories, and other critical environments. Ideal for facilities seeking compliance with USP <797>, USP <800>, and FDA 503A/B guidelines, it combines accurate pressure monitoring with an intuitive user experience to support safety, compliance, and operational consistency.

Featuring a glove-friendly color touchscreen, intuitive graphical user interface, and on-screen messaging, the Pressure100 is easy to configure and operate with minimal training. Clear on-screen instructions guide users through setup and daily operation, while facility-specific information such as room names and asset IDs can be added directly on the device.

The Pressure100 continuously monitors and displays differential pressure, temperature, and relative humidity. Color-coded status displays, on-screen notifications, and a flashing alarm LED provide immediate indication of operating conditions and critical alarm events. The INFO button offers quick access to calibration dates, alarm thresholds, and other key system settings, while password protection prevents unauthorized changes to safety-critical parameters.

A built-in USB port supports firmware updates and data logging for compliance recordkeeping. Factory calibrated before shipment, the Pressure100 also features a simple zero-pressure recalibration process for installation and recertification activities.

Powered by 24 VAC/VDC, the Pressure100 uses an external pressure sensor and includes tubing and cabling suitable for most installations. Additional features include occupied/unoccupied operating modes, door status monitoring, alarm latching and ring-back control, configurable units of measure, pressure resolution settings, and remote signaling capabilities.

Combining accurate monitoring, flexible controls, and ease of use, the Rooster™ Pressure100 helps facilities maintain compliant and controlled environments.



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)

Features Overview

- Glove-friendly, color touch panel display, with complete user messaging and intuitive interface.
- Fast and intuitive set-up, with no need to have manual on hand.
- USB port allows data logging as well as firmware upgrades to future-proof your investment.
- Whole-screen background colorization to convey current pressure and temperature state, augmented by flashing red LED while in alarm state.
- On screen messaging, to alert multiple simultaneous alarms and real-time latching/mute conditions.
- Room differential pressure, available in inches of water, cm of water or Pascals, displayed on-screen with alarming capabilities.
- Full temperature compensation built-in for accuracy across wide operating temperature range.
- Air temperature and relative humidity sensing and display.
- Password protection provides user personalization without affecting safety configuration.
- Info button for instant access to calibration date, alarm thresholds and other system settings.
- Laboratory specific information such as room name or unique asset ID can be added.
- Easy "zero pressure" calibration process.
- Remote monitoring of pressure alarms.
- Input signaling for occupied or unoccupied room modes of operation.
- Configurable door status alarm during real-time pressure drops.
- Advanced mute, alarm delay, and ring-back implementations.
- Power fail protection to retain settings in case of power mains failure.
- USB keyboard compatible, for user based information, and alphanumeric asset tagging.

Part Number Format

TC62314-P-D-C

P = **Power Selection**

- 1 = Customer Supplied Power with Semi-Flush Mount Back Plate
- 2 = US Power Supply with Wall Mount Back Plate
- 3 = EU Power Supply with Wall Mount Back Plate

D = **Door Switch Kit Option**

Specify -D to have the Door Switch Kit included



Input/Output Available

Inputs - Door Sensor and Occupied/Unoccupied Room

Outputs - Pressure Alarm

Sensor Performance

Differential Pressure

Measurement Range	-125 to +125 Pa (-0.5 to 0.5 in H ₂ O)
Accuracy	3% of reading + 0.08 Pa (0.00032 in H ₂ O)
Repeatability	0.5% of reading + 0.04 Pa (0.00016 in H ₂ O)

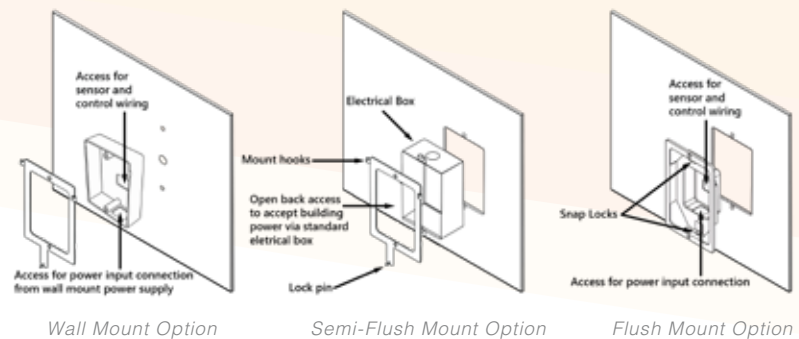
Temperature

Measurement Range	-40°F - 185°F (-40°C - 85°C)
Accuracy	2 °C (-10 °C to +60 °C); 3 °C (-40 °C to +85 °C)
Repeatability	0.1 °C

Display Module Mounting Options

Typically, the Rooster™ Pressure100 display module is mounted near an access door, at eye level, and in the controlled room, with the pressure sensor mounted above it. Other mounting scenarios are possible.

The display module is designed to mount semi-flush, where the back plate sits partially inside a standard electrical box. A wall mount back plate option is available for installations with a wall mount power supply.



Pressure Sensor Mounting Options

The pressure sensor should be used with the supplied tubing to create an airflow path from the front face to the outside room wall. Air screens are removable and washable.