



NU-956 FLOW GARD PRESSURE MONITOR INSTALLATION

Specifications

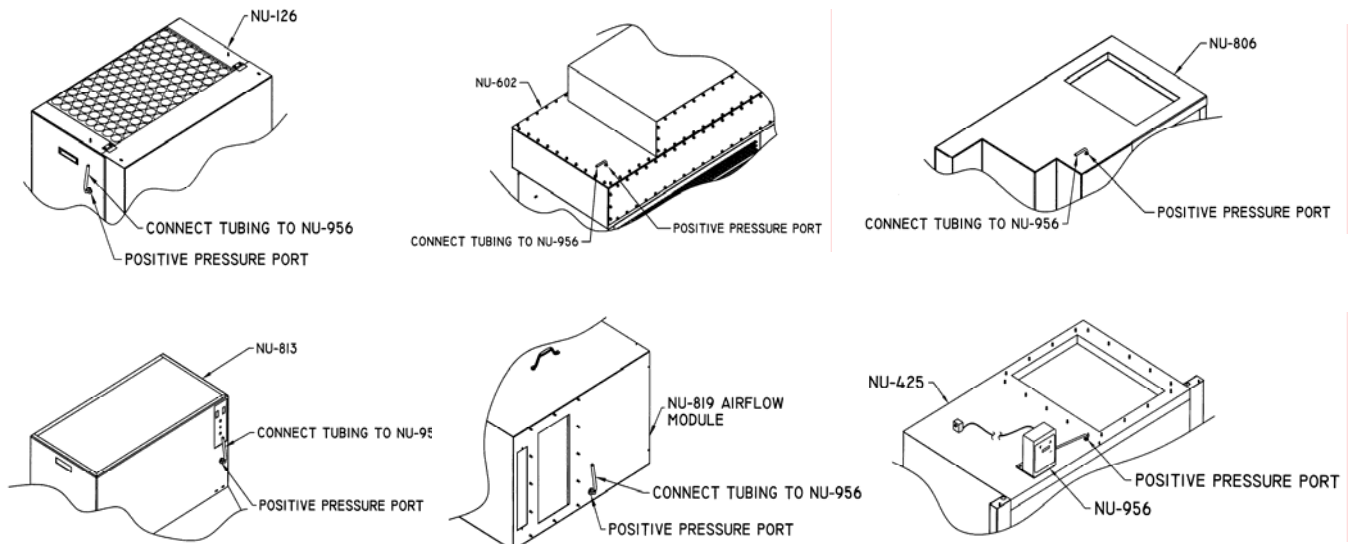
Power: 115V, 60Hz, 1 amp
Size: 4-5/8"(W) x 6-3/16"(H) x 4"(D)
Tube Length: 48"
Power Cord Length: 70"
Operating Pressure Range: 0-2" (positive or negative) H₂O
Operating Pressure Setpoint Repeatability ± 0.02 " H₂O
Operating Temperature: 60°F to 85°F (15°C to 30°C)
Alarm: Audible - 73 dba
Visual - Flashing Yellow/Red LED

Installation

Note: Cabinet or duct system must be new or have been decontaminated before installing the NU-956.

- 1) Locate the positive pressure port for the cabinet or negative pressure port on the exhaust duct.
- 2) Remove the plug to the positive pressure port and install hose barb fitting to the cabinet, or if installing in exhaust duct, then drill hole for the hose barb fitting and install fitting w/nut & washer.
- 3) Connect tubing to hose barbs (positive or negative) on the NU-956 and the cabinet or duct system.
(See appropriate cabinet drawing below)

CAUTION: For positive pressure use, the in-line filter must be installed between the NU-956 and the cabinet. Cut tubing and install in-line filter.



- 4) Attach the NU-956 to the cabinet with the Velcro strips that are provided.
- 5) Plug the NU-956 into an 115V outlet.

Flow Gard Operation

Overview

The Flow Gard monitor uses a digital pressure transducer to monitor positive or negative pressure. The Flow Gard monitor indicates through LED's normal operation (green), as well as high alarm status (red) and low alarm status (red).

When the Flow Gard is turned on, it will go through a 4-minute warm-up period indicated by a series of blinking LED's. When the warm-up period is complete, the LED indicator will stop blinking and remain on.

All user interaction is accomplished through the arrow and reset keys. **IT IS RECOMMENDED THAT THE FLOW GARD BE CALIBRATED ANNUALLY.**

Nominal Airflow Calibration

To calibrate the Flow Gard monitor, the positive or negative pressure source must first be set to standard or nominal airflow values. Once the nominal airflows are set, perform the following procedure:

- Press and hold [↑] and [↓] arrow keys simultaneously for 3 seconds until the center green LED blinks. **ALLOW UNIT TO RUN FOR A MINIMUM OF 2 MINUTES** with the center green LED blinking.
- Press [RESET] key to enter the nominal airflow value (green LED will stop blinking and display normal).

Please note, after the initial calibration, the Flow Gard LED display will bounce around more than normal. After a few hours, the Flow Gard LED display will steady due to fuzzy logic or a learning program that averages the normal display.

Once the Flow Gard has been calibrated, the high/low alarm limits are defaulted to activate with a pressure deviation of ± 0.13 inches (3mm) water gage from nominal. For a positive pressure application to a cabinet, the pressure deviation translates to a reduction in airflow that is well within the operational tolerances of the cabinet.

Independent High/Low Alarm Calibration

If desired, the Flow Gard high or low alarm limit may be adjusted. However, to adjust the high or low alarm setpoint, the positive or negative pressure must be altered to the desired alarm setpoint before the individual calibration point can be entered into the monitor. Once the positive or negative, high or low limit airflows are set, perform the following procedure:

- Press and hold either the [↑] key for high alarm or [↓] key for low alarm for three seconds until the Hi or Lo red LED blinks respectively. **ALLOW UNIT TO RUN FOR A MINIMUM OF 2 MINUTES** with the red led blinking
- Press [RESET] key to enter the high or low alarm setpoint.
- Re-adjust airflow back to the nominal values.

The high or low alarm limit may be verified by adjusting the airflow to the alarm limit to induce an alarm condition.

Audible Pressure Alarm

The audible alarm should be activated whenever the pressure reaches the high or low alarm setpoint. However, once the alarm pressure is reached, it must stay on the alarm limit for 5 seconds consistently or it will not recognize it as an alarm. If at any time, the pressure returns to acceptable limits, the alarm would be reset and silenced. Once the 5 second period of constant alarm is present, the audible should sound for 30 seconds, then ringback 1 second every 10 seconds. If the Reset key is pressed, the alarm should be silenced for 5 minutes, then continue to ringback for 1 second every 10.

Warranty

NuAire, Inc. warrants that it will repair F.O.B. its factory or furnish without charge F.O.B its factory, a similar part to replace any material in its equipment within 12 months after the date of sale if proved to the satisfaction of the company to have been defective at the time it was sold provided that all parts claimed defective shall be returned, properly identified to the company at its factory, charges prepaid. Factory installed equipment or accessories are warranted only to the extent guaranteed by the original manufacturer and this warranty shall not apply to any portion of the equipment modified by the user. Claims under this warranty should be directed to NuAire, Inc. setting forth in detail the nature of the defect, the date of the initial installation and the serial and model number of the equipment.

This warranty shall not apply to any NuAire product or part thereof which has been subject to misuse, abuse, accident, shipping damage, improper installation or service or damage by fire, flood or acts of God. If the serial number of the product is altered, removed or defaced as to be illegible, the warranty shall be null and void in its entirety.

The warranty is for the sole benefit of the original purchaser and is not assignable or transferable.

Shipments

NuAire takes every reasonable precaution to insure that the NU-956 arrives without damage. Motor carriers are carefully selected and shipping cartons have been specially designed to insure your purchase. However, damage can occur in any shipment and the following outlines the steps you should take on receipt of the NU-956 to be sure that if damage has occurred, the proper claims and actions are taken immediately.

Damaged Shipments

Terms are factory, unless stated otherwise. Therefore it is important to check each shipment before acceptance.

If there is visible damage, the material can be accepted after the driver makes a notation on the consignee's copy of the freight bill. Then an inspection must be made to verify the claim against the carrier. This inspection is the basis of your filing the claim against the carrier.

If concealed damage is found, it is absolutely necessary to **NOTIFY THE FREIGHT AGENT AT ONCE**, and request an inspection. Without this inspection, the transportation company may not accept a claim for loss or damage. If the carrier will not perform the inspection, an affidavit must be prepared stating that he was contacted on a certain date and that he failed to comply with the request. This, along with other papers in the customer's possession, will support the claim.