

## Product Overview

The Bubbler Air Monitoring System (BAMS) is a hybrid solid state/pneumatic controller designed to alternate and monitor two air supplies, providing continuous system airflow. A test/alternate push button is provided to test the complete system and force alternation of the air supplies. Press the test/alternate push button once, the air supplies alternate and the no flow indicator light goes on temporarily.

When air flow starts again -- the no flow air indicator light goes out and the air flow indicator comes on. If the test/alternate pushbutton is pressed and held, the air supplies alternate and the no flow indicator remains illuminated as long as the push button is pressed and held.



Each air supply is provided with the following indicator lights:

<b>AIR SUPPLY RUN</b>	Illuminates when the respective air supply output terminals are supplied with power.
<b>AIR SUPPLY FAIL</b>	Flashes after no air flow is detected for 45 seconds.
<b>RESET PUSHBUTTON</b>	Resets the flashing AIR SUPPLY FAILED alarm indicator by disconnecting power from the air supply terminals and illuminates the NO AIR FLOW indicator.

The BAMS system includes two form A dry contacts for remote monitoring:

<b>AIR SUPPLY WARNING contact</b>	Closes to indicate that one of the two air supplies have failed.
<b>AIR SUPPLY FAILED contact</b>	Closes to indicate that both of the air supplies have failed.

Both contacts can also be configured with the internal dipswitch to indicate flow switch failure.

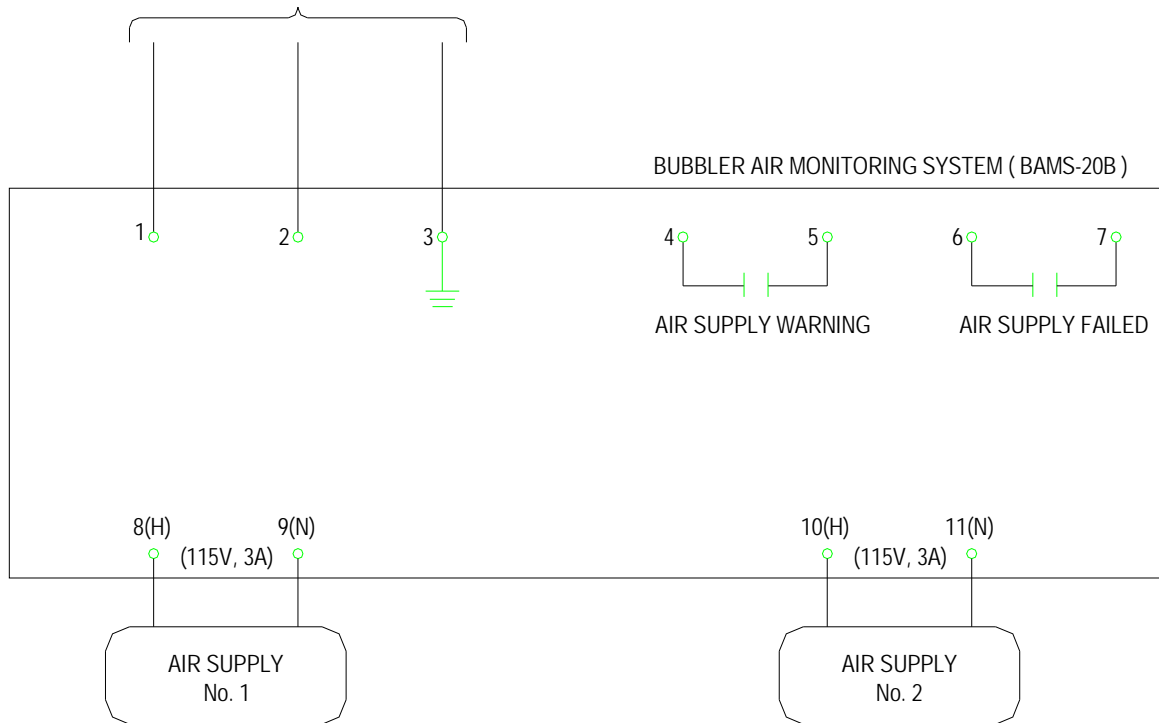
A flowmeter is provided to continuously monitor system air flow. Indicator lights show the following:

<b>AIR FLOW</b>	Illuminates when system air flow is detected.
<b>NO AIR FLOW</b>	Illuminates when no system air flow is detected.
<b>FLOW SWITCH FAILED</b>	Illuminates when there is a problem with the internal differential pressure switch.
<b>RESET PUSHBUTTON</b>	Resets the FLOW SWITCH FAILED alarm indicator by disconnecting power from the air supply output terminals and illuminates the NO AIR FLOW indicator.

Alternation of the two air supplies is based on an internal dipswitch configuration. This dipswitch can be set to provide:

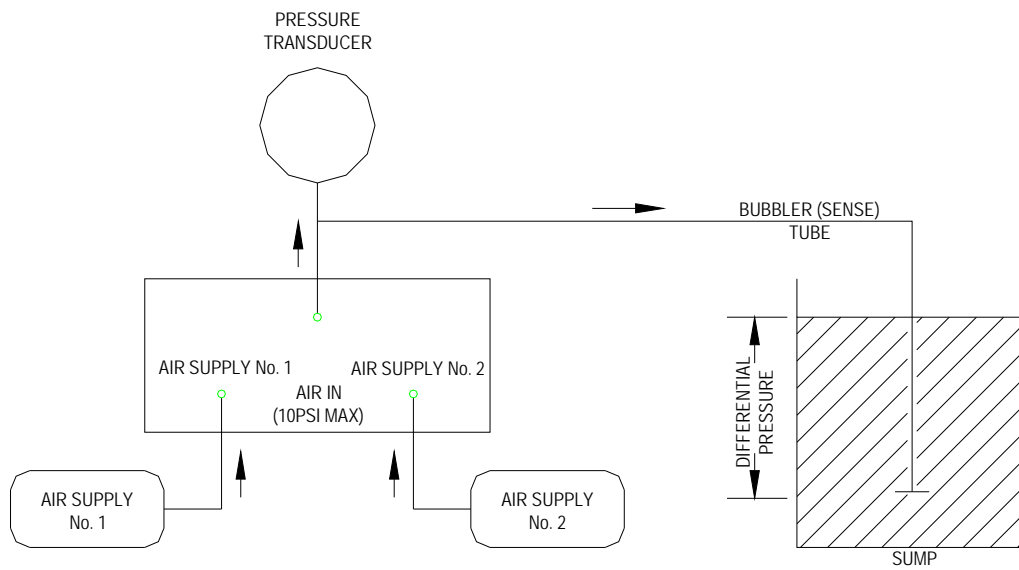
<b>Timed Even Alternation</b>	Every 4 hours
<b>Timed Uneven Alternation</b>	Every 4 hours and 1 hour
<b>Manual Alternation</b>	User Determined

## Wiring Diagram



\*CONSULT FACTORY IF UL LABEL REQUIRED

## Pneumatic Diagram



BUBBLER AIR MONITORING SYSTEM (BAMS-20B)  
PNEUMATIC DIAGRAM (TYPICAL)

## Technical Specifications

## Suggested Text for Spec Writers

Input Power:	115 VAC
Burden (VA):	6 VA (not including air supply power requirements)
Load Output Contacts(2):	115 VAC, 1 Amp max each
Pneumatic Input:	10 psi max
Dimensions:	5.25" H x 8.375" W x 3.125" D
Alarm Output Contacts(2):	Air Supply Warning (Form A, N.O.) Air Supply Failed (Form A, N.O.)
Available Power:	115 VAC, 5 Amps
Air Flowmeter:	1 – 6 SCFH, non-adjustable
Controls:	Test/Alternate Pushbutton Reset Pushbutton
Indicator Lights:	Air Flow (green) No Air Flow (red) Failed (2), (yellow) Run (2) (green) Flow Switch Failed (red)
Enclosure Rating:	NEMA 1

"The Bubbler Air Monitor System shall be a self-contained hybrid electronic-pneumatic alternating air supply controller. Air flow shall be continuously monitored with separate indicators for air flow, no air flow and flow switch failed. Output terminals shall be provided to accept two air supplies rated 120 VAC, 3 amps maximum. Form A dry alarm contacts shall be provided for remote indication of air supply warning and failure alarms. Pneumatic input to the bubbler air monitor system shall not exceed 10 PSI. Pneumatic connections shall be provided for dual air inputs and a single air output. Duplex air supply shall be monitored when called to run with separate indicators for run and failed conditions. Air supply alternation is user selectable via internal dip switch. Air supply alternation modes shall include manual, timed even alternation (every 4 hours), and timed uneven alternation (every 4 hours and 1 hour). A test/alternate push button switch shall be provided to manually alternate the air supply and perform a complete system test. A reset push button shall be provided to return the system to normal operation after corrective action has been taken. The bubbler air system shall not utilize bulky high maintenance air storage tank systems including numerous valves and fittings. The bubbler air monitoring system shall be model number BAMS-20B as manufactured by EG Controls, Inc., or approved equal."

## Manufacturer Information

*The BAMS system is exclusively available from:*



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