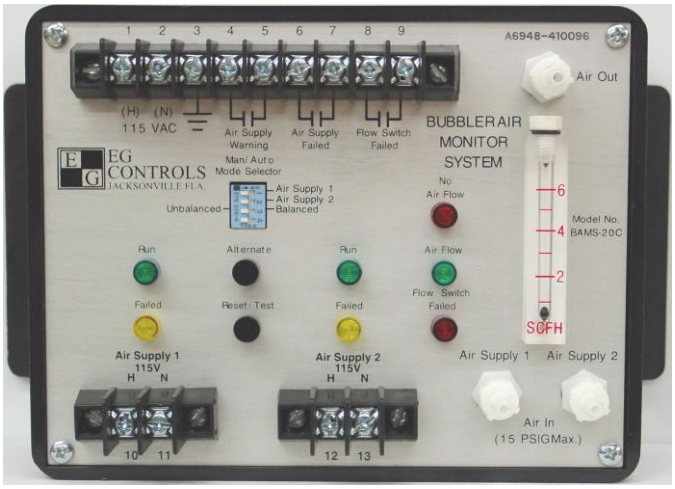
EG Controls
JACKSONVILLE, FLORIDA

Bubbler Air Monitoring Systems (BAMS)
Technical Data Sheet
Part #: BAMS-20C

Product Overview

The Bubbler Air Monitoring System (BAMS) is a solid-state controller with self-test capability used for monitoring and alternating two air supplies to provide continuous system airflow.

Status and alarm indicators are provided for each air supply and flow switch. Airflow is continuously monitored and displayed.
All adjustments, electrical and pneumatic connections are made on the front panel.



The following control switches and status indicators are provided on the front panel:

AIR SUPPLY RUN	(Green LED) – on steady when air supply terminals are powered
AIR SUPPLY FAIL	(Yellow LED) – on flashing when no airflow is detected
AIR FLOW	(Green LED) – on steady when airflow is detected
NO AIR FLOW	(Red LED) – on steady when no airflow is detected
FLOW SWITCH FAILED	(Red LED) – on steady when the internal differential pressure switch fails to respond to changes in system airflow
ALTERNATE PUSHBUTTON	Force air supply alternation
RESET / TEST PUSHBUTTON	Push to reset alarm or initiate system self-test sequence

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MANUAL / AUTOMATIC MODE SELECTOR (Four Position Dip Switch)

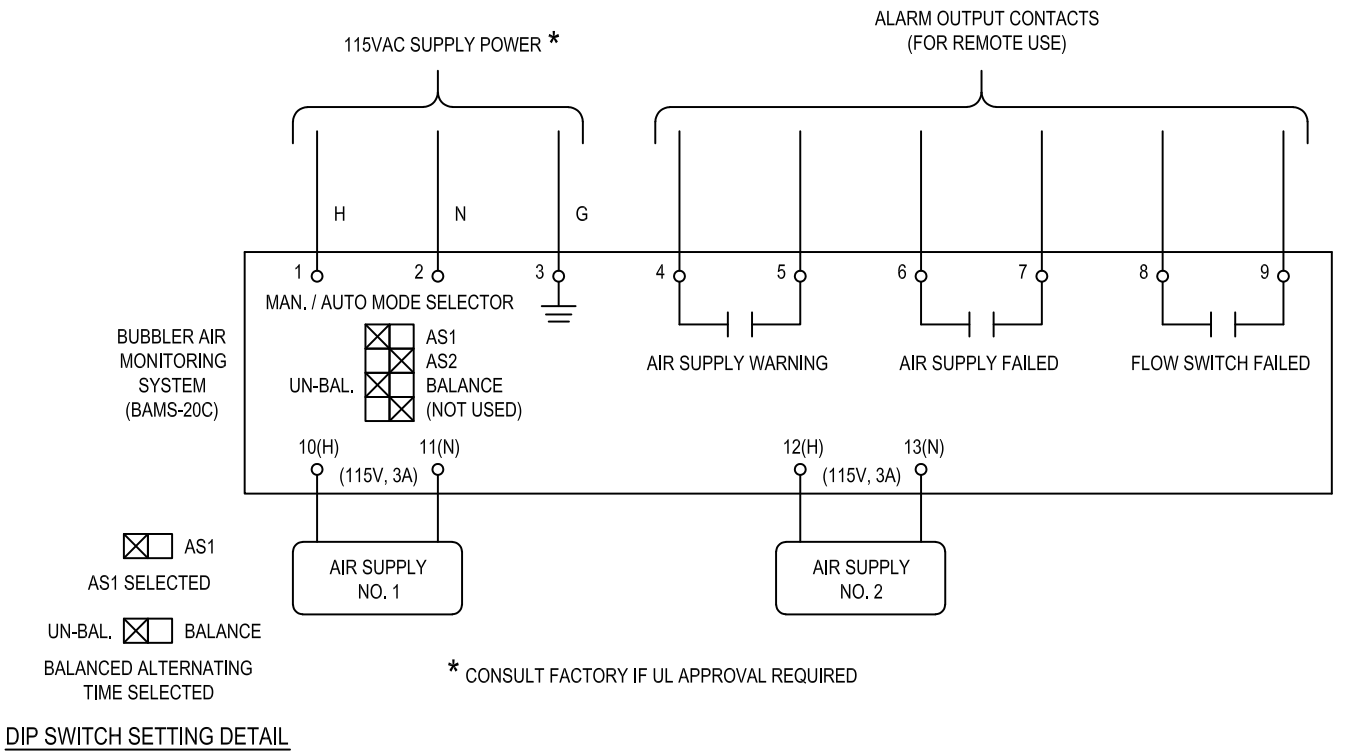
Dip Switch No. 1 selects air supply no.1 to run continuously when in the right position.
Dip Switch No. 2 selects air supply no.2 to run continuously when in the right position.
Note: Automatic alternation will occur when dip switch nos. 1 and 2 are in the same position.

Dip Switch No. 3 selects automatic alternation time, unbalanced (left), balanced (right).
Unbalanced alternation time calls for air supply no.1 to run for four hours and air supply no. 2 to run for one hour.
Balanced alternation time calls for each air supply to run for four hours when called to run.
A flowmeter is provided for visual indication of the monitored system airflow.

The Bubbler Air Monitoring System provides three form A dry contacts for remote monitoring:

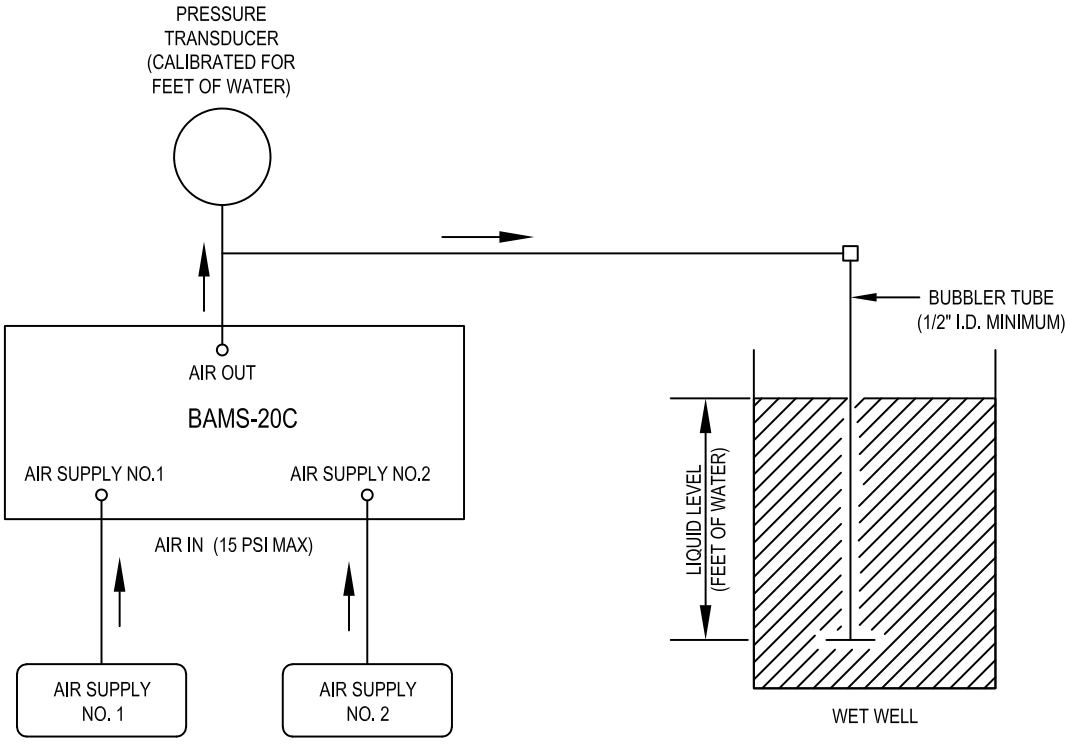
Air Supply Warning – closes to indicate that one air supply has failed
Air Supply Failed – closes to indicate that both air supplies have failed
Flow Switch Failed – closes to indicate that the flow switch failed to open or close when required

Wiring Diagram



DIP SWITCH SETTING DETAIL

Pneumatic Diagram



NOTE: MAXIMUM DISTANCE BETWEEN CONTROL PANEL AND BOTTOM OF BUBBLER TUBE IS 1000 FEET.

Technical Specifications

Input Power:	115 VAC, 1 Phase, 2 Wire, 2 Amps
Burden (VA):	230 VA (when recommended air supplies are used)
Pneumatic Input:	15 PSI Max.
Environmental Rating	NEMA-1 Enclosure
Dimensions:	5.25" H x 8.375" W x 3.125" D
Controls:	Alternate pushbutton Reset / Test pushbutton Manual-Automatic mode selector dip switch
Status Indicators	Air Flow Meter, 0-6 SCFH (non-adjustable) Run, Green LED (2) Failed, Yellow LED (2) Air Flow, Green LED No Air Flow, Red LED Flow Switch Failed, Red LED
Load Output Contacts (2)	Air Supply No. 1
115VAC, 3Amps	Air Supply No. 2
Alarm Output Contacts (3)	Air Supply Warning (N.O.)
115VAC, 10Amps	Air Supply Failed (N.O.) Flow Switch Failed (N.O.)

Suggested Text for Spec Writers

"The Bubbler Air Monitor System shall be a solid-state 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 115 VAC, 3 Amps maximum. Form A dry alarm contacts shall be provided for remote indication of air supply warning, air supply failed and flow switch failed. Pneumatic input to the bubbler air monitor system shall not exceed 15 PSI. Pneumatic connections shall be provided for dual air inputs and a single air output utilizing twist-to-connect couplings. Each air supply shall be monitored and provided with separate indicators for running and failed conditions. Alternation is user selectable from the front panel dip switch. An alternate push button shall be provided to manually alternate the air supplies. A reset / test push button shall be provided to initiate system self-test sequence and return the system to normal operation after corrective action has been taken. The Bubbler Air Monitoring System shall be model number BAMS-20C as manufactured by EG Controls, Inc."

Manufacturer Information

The BAMS is exclusively available from:

EG Controls
JACKSONVILLE, FLORIDA

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