

100 SERIES BMS-110 BUBBLER MONITOR SYSTEM

MODEL # BMS-110

- Σ **Microprocessor Based**
- Σ **Compressor Alternation**
- Σ **Status Indicating LED's**
- Σ **Pressure and Flow Monitoring**
- Σ **3 ea. 10A Relay Outputs**
- Σ **RS485 Digital Data Output**
- Σ **Networkable (future)**
- Σ **Alarm Relay Output**
- Σ **Warning of Failure**



SPECIFICATIONS

- Power Supply: 24VDC \pm 20% @ 4VA or 110VAC with adapter.
- Relay Output (3): 10A @ 120VAC
8A @ 30VDC
- Input Switch: Open Circuit 10VDC
- Temperature Operating: -20°C to +60°C
Storage: -40°C to 85°C
- Relay Life: Electrical 100K Cycles
Mechanical 10,000K Cycles
- Terminations: Screw Terminal
Barrier Strip
- LED Indicators:
Status (Green):
1 Flow OK
2 Comp 1
3 Comp 2
Alarm (Red):
1 Supply Fail
2 Supply Warn
3 Compressor 2 Alarm
4 Compressor 1 Alarm

OVERVIEW

The Bubbler Monitor is a state of the art microprocessor based instrument designed to monitor and control duplex air compressors in a level bubbler system. Duplex alternation of compressors assures even wear.

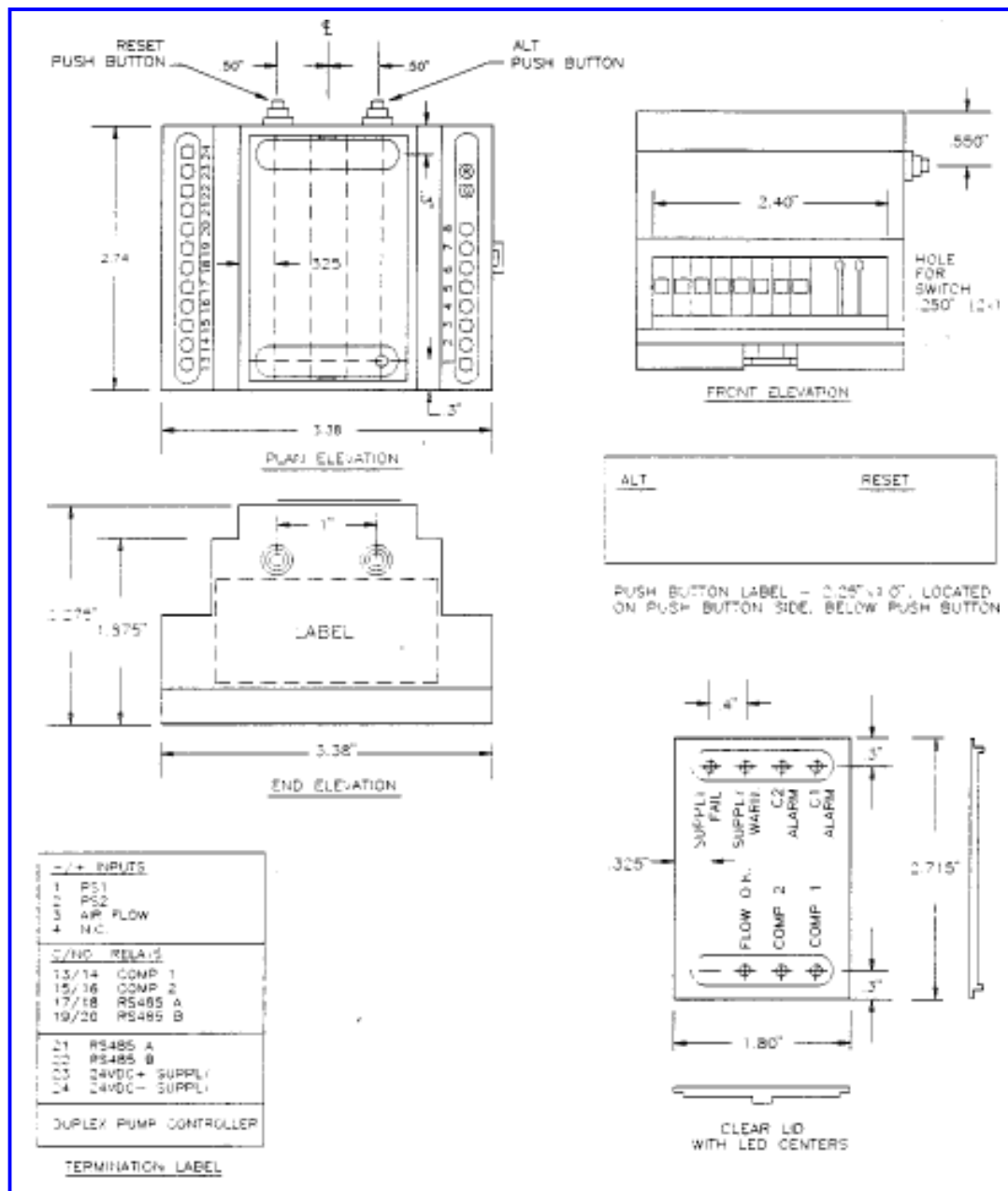
Monitoring of individual compressor discharge pressure allows for a failed compressor to be removed from service and the unused compressor to be brought on-line ensuring a consistent air supply.

A differential switch across the variable area flow meter checks for an unobstructed dip tube. In the event of a dip tube blockage, the differential switch activates a flow fail LED and alarm output.

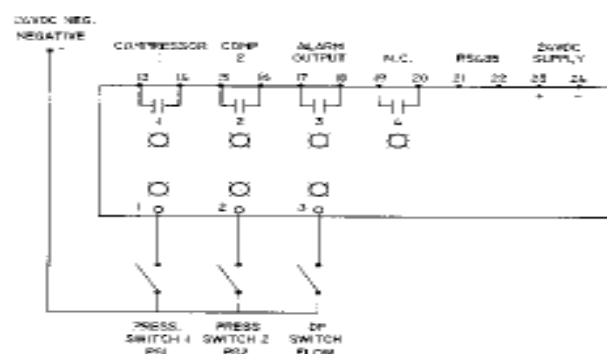
LED indicators provide status of inputs and outputs. Compressor alternation is automatic on 4 hour cycle or on demand via side mount push button.

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WIRING DIAGRAM



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PROCESS CONTROLS AND INSTRUMENTATION

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