

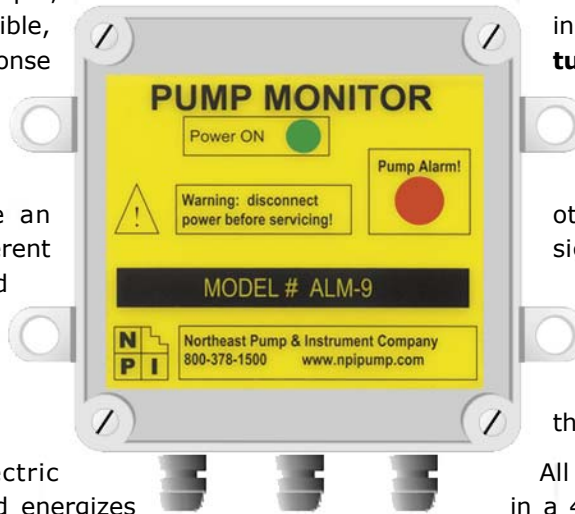
Pump Monitor Model ALM-9

Alm-9 Unit

The ALM-9 Pump Monitor is a simple, low-cost solution for providing audible, visual and dual relay outputs in response to an alarm signal from one or more LMI A9, B9 or C9 Series metering pumps.

These LMI pumps will generate an alarm signal if any of five (5) different operating conditions are encountered (E1 to E5). This alarm signal is carried to the ALM-9 from the pump over a single cable assembly (LMI PN 33738).

This signal initiates a piezo-electric buzzer, large flashing red LED and energizes a DPDT relay which can switch **two different**



electrical loads (e.g. SCADA/PLC inputs, autodialer, **automatically turn on a backup pump**, switch a custom alarm circuit, etc.)

An internal terminal strip provides easy connectivity of other low power metering pump signals from the Series 9 pump (input and outputs including series 4-20 mA connections between LMI pumps) in the PN 33738 cable assembly with the pump cable.

All of these features are included in a 4" x 4" x 2" NEMA 4 rated PVC enclosure.

Features of the ALM-9 Pump Monitor

- Input voltage: 120 VAC (50/60 Hz).
- DPDT output relay rated at 8 amps at 120 VAC.
- Optical isolation between input signal and internal circuitry.
- Green 'POWER-ON' LED
- Flashing Red 'ALARM' LED for visual indication of error condition.
- Internally-mounted, piezo-electric audible alarm.
- Low-cost, simple installation.
- Modular construction for ease of maintenance.
- Available with liquid-tight connectors or PVC conduit connections.
- Provides low-voltage signal wiring connectivity for LMI's A/B/C9 Series pumps using a separate internal terminal strip. (e.g. for flowmeter input, 4-20 mA signal input connection, low level inputs, etc.)
- NEMA 4X type enclosure.

**Automatically Switch
on a BACKUP Pump
AND trigger an Alarm!**

800-378-1500

Northeast Pump & Instrument

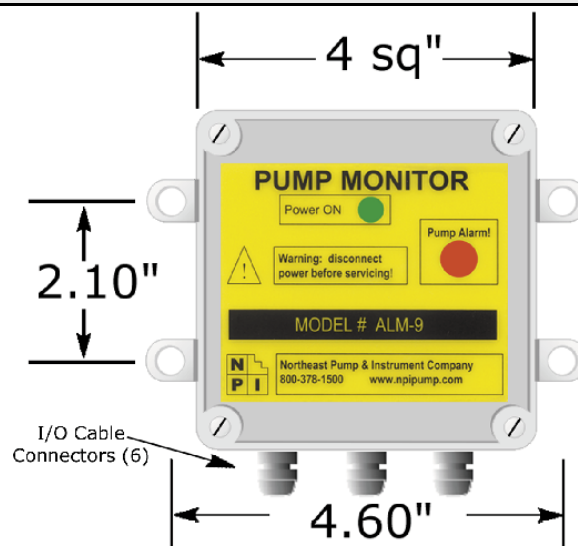
www.npipump.com

190 Summer Street, Lunenburg, MA 01462

Product Specifications

Input Voltage:	120 VAC, 50/60 Hz
Power Consumption:	Approx. six (6) watts maximum, intermittent (during alarm 'ON' condition)
Trigger Signal:	12-15 VDC, 20 mA
Input Signal Isolation:	Optically isolated from on-board power supply
Output Relay:	DPDT, 8 amp resistive load rated contacts @120 VAC (un-powered as shipped) N/C, COMMON & N/O available for each pole
Output Connections:	Fully Insulated euro-style terminal strip, six (6) positions
Input Connections:	Fully insulated terminal strip, eight (8) position; two (2) for alarm signal input and six (6) for pump signal pass-through connections.
Indicator Lights:	LEDs, powered by low voltage: 'ALARM' LED = Red; 'POWER-ON' LED = Green
Audible Alarm:	Piezo-electric module, 82 dB @ 2800 Hz (inside unit) powered by low voltage
Connections:	Two (2) sealed cable connectors. Max. cable diameter .20" (6 mm) (conduit connections available)
Power Cord:	120 VAC supplied for 120 VAC versions (conduit version available)
Conduit Connections:	½" Sealtite connections
Input Signal Cable:	LMI Cable PN 33738 required for operation: standard with LMI Series 9 pumps purchased after September 1999
Optional Connectors:	Additional connectors can be added to the unit for cabling connections to or from other pumps (Consult NPI for special versions)
Enclosure:	Gasketed PVC, marine rated

Dimensions



Ordering Information:

ALM-9-1	Pump Monitor 120 VAC cable w/cord connectors
ALM-9-1C	Pump Monitor 120 VAC with two (2) ½" Sealtite conduit connectors for power input and relay output connections