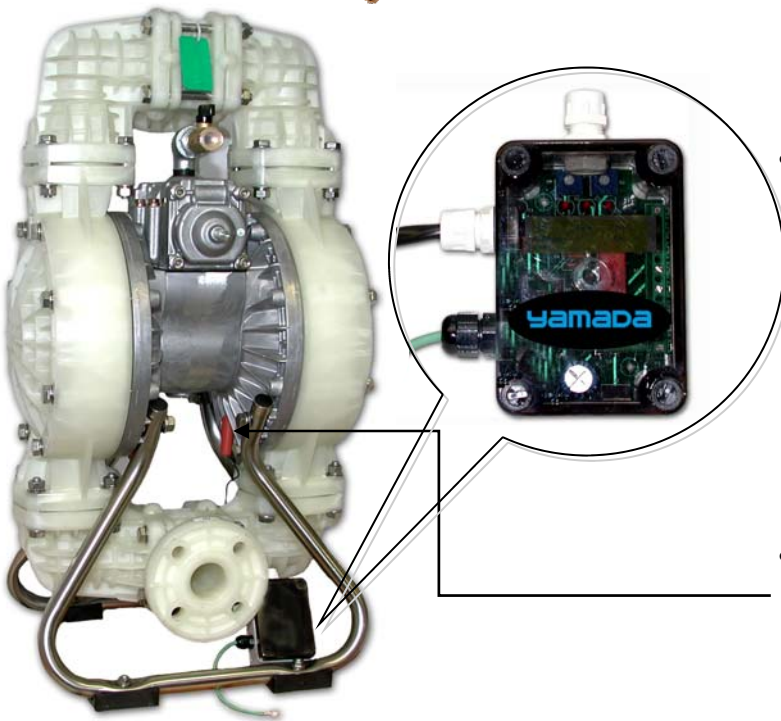


# Yamada

## Accessories

### DM-2 Diaphragm Monitor System

Improve your sense of security  
with a Yamada DM-2



The Yamada DM-2 Diaphragm Monitoring System is designed to protect your Yamada Pump against damage from corrosive, aggressive, or other harmful pumped fluids. Powered by standard line current, the DM-2 automatically disrupts air supply pressure to the pump and / or activates an indicator the moment a diaphragm leak is detected.

#### Key Advantages:

- **Detects Diaphragm Leaks Instantly:** Sensitive moisture probes respond quickly to liquid in the pump air chamber keeping leaks from causing pump damage or product contamination.
- **Automatic Shutdown or Alarm Capability:** The DM-2 can be connected to a solenoid valve, alarm, or control system to automatically stop the pump and / or alert the operator the moment the leak is detected.
- **Compact and Simple:** Moisture probes are easily located at the bottom of each pump air chamber. Indicating lights display left / right diaphragm leaks. Remote control enclosure is standard in NEMA 4X (watertight) and measures just 2 1/2" W x 3 3/4" L x 2 1/4" D (dimensional drawing on back). The enclosure can be easily mounted to any flat surface.
- **Sensitivity and Inspection:** Both sensors are adjustable to provide the required sensitivity for a particular fluid pumped. The system can easily be inspected via simple probe removal from the pump air chamber and immersing in the fluid pumped.

#### APPLICATIONS

- When positive head pressure is on the pump fluid inlet
- When pumping hazardous or toxic fluids for worker and environment safety
- Expensive fluids

The **Proof's** in the **Pump**

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# Principal of Operation

The DM-2 Diaphragm Monitoring System senses liquid entering the non-wetted portion of the Yamada Pump via a leaking diaphragm. A sensitive electronic moisture sensor, which operates on the principal of fluid conductance, is installed at the lowest point of each air chamber. In the event of a diaphragm leak, liquid enters the airside of the pump, collects at the bottom of the air chamber where the probe is located, is detected by the sensor and a signal is transmitted to a remote

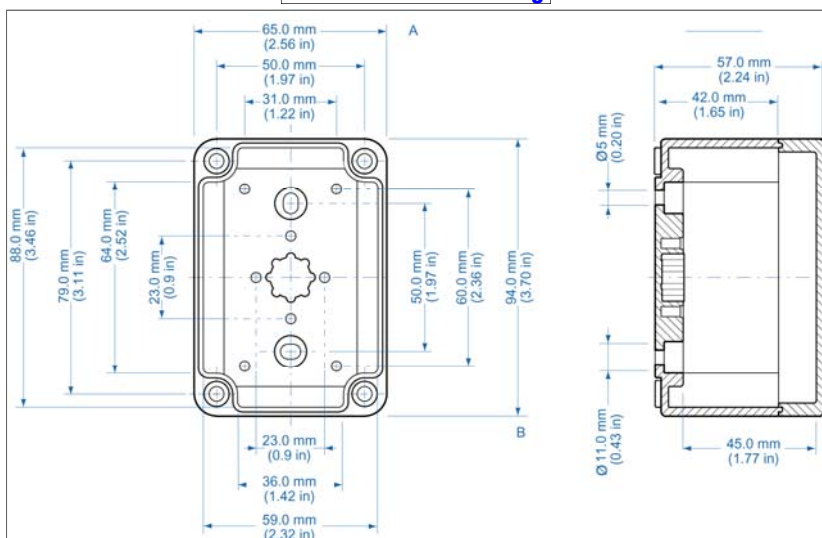
master control. The controller, in turn, activates any connected alarm system, solenoid valve, or electronic device. The DM-2 Diaphragm Monitoring System can be factory installed on any Yamada Industrial or FDA NDP-20,25,40,50, & 80, or DP-10 Series pump. The system operates on 1/50/60/110 with transformer or direct on 1/50/60/12 or 24 volt AC or DC power.

Note: DM-2 is to be utilized when pumping electrically conductive fluids ONLY.

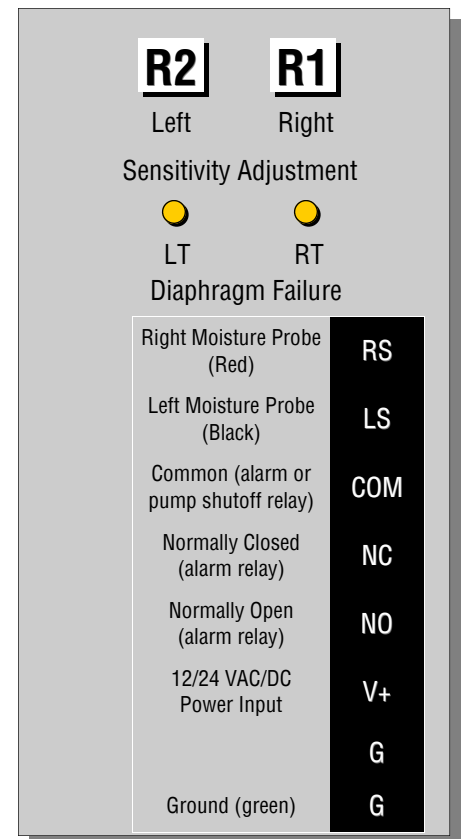
## Performance Specifications

Materials of Construction	<b>ABS Plastic</b>
Enclosure	NEMA 4X/IP66
Mounting	Flat Surface, #10 Fasteners
Weight	8.1 oz.
Power Supply (Standard Unit)	1 Phase, 50/60 hertz, AC or DC, 12 or 24 volt
Optional Transformer	1 Phase, 50/60 hertz, 120/12VAC
Operating Temperature Range	0°F to 125°F
Sensitivity Range	0-100,000Ω (0-5 Volt)
Cable Length (Probes)	Standard-2', Optional-up to 100'
Cable Power and Alarm (User to Supply)	4-Wire, 18 Gauge, Non-Shielded

**Dimensional Drawing**



Note: Due to Yamada's continued commitment to product improvement, specifications may change without notice.



**Yamada**

Your local distributor:

Form# DM0402