

Installation and Operation Instruction

Low Point Leak Detection System



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1 Introduction

The secondary containment leak detection system allows for real time monitoring and indication of any leaks that occur in the contained piping system. This system includes 12 discrete monitoring points with remote communications and optional local alarm indication. The NEMA4X Enclosure is safe to use in wet and hazardous environments. Installation is quick and simple with the included 110VAC power cord and the DIN rail mounted terminal blocks. The lockable enclosure allows for the system to be locked out for safe servicing of the sensors. Various leak detection sensor options are available for various applications and system requirements.

2 Identification

Refer to product identification label on the right side of the enclosure for the part number and electrical rating.

3 Safety Information

General

- Adhere to all safety precautions and construction principals when installing the Leak Detection System.
- Wear proper PPE when handling leak detection sensors.

Mounting

- Installation and mounting shall be carried out in accordance to all Federal, State and Local electrical codes and building regulations.
- The Leak Detection System should be installed in an easily accessible location with adequate safety space for the operator.
- Do not alter product construction.
- Wear appropriate personal protection equipment during installation.

Electrical

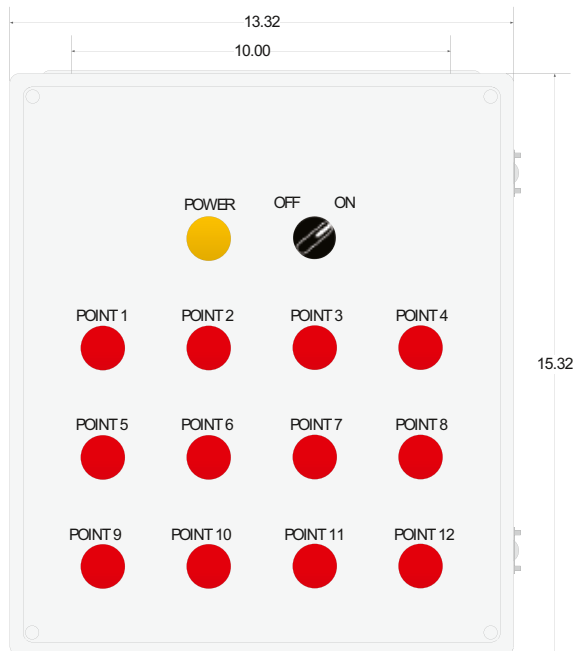
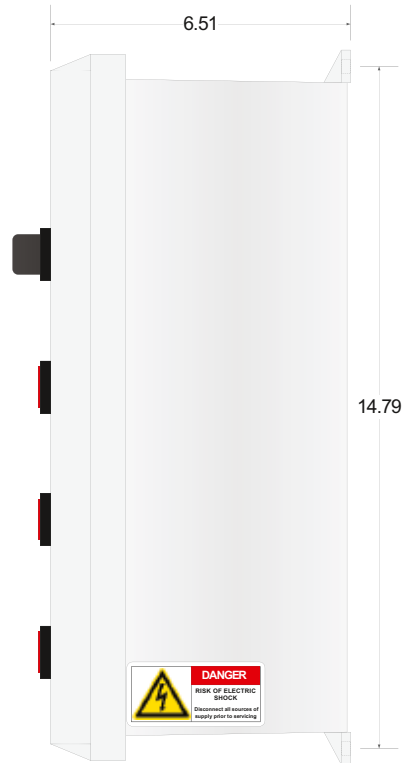
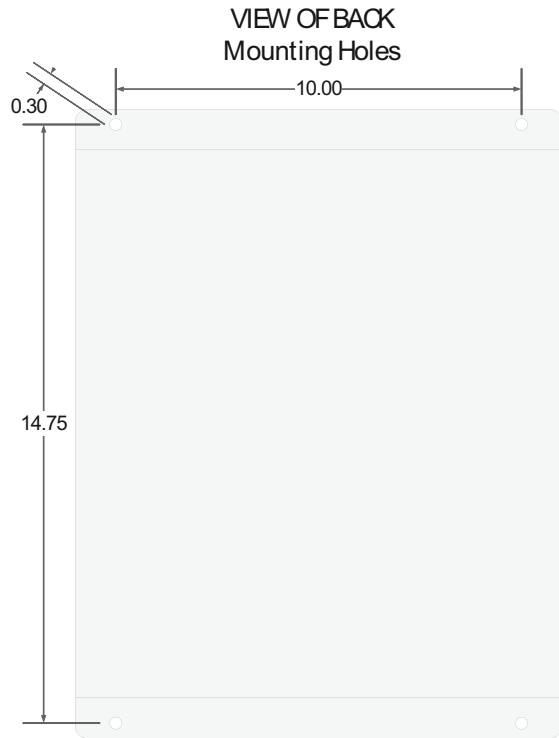
- Under normal conditions the Leak Detection System is to be operated with the cover secured to prevent possible electrical shock.
- Electrical connections should only be performed by qualified electrician.
- If work is performed inside the Leak Detection System while power is present then all work should be carried out by qualified electrical personal using specialized insulated tools.
- Detection sensors should be chemically compatible with detection media to prevent accidental damage or injury.

4 Mounting

- Mount to a solid platform.
- Mount in an area that is easily accessible to allow for safe operation.
- Not rated for classified areas.

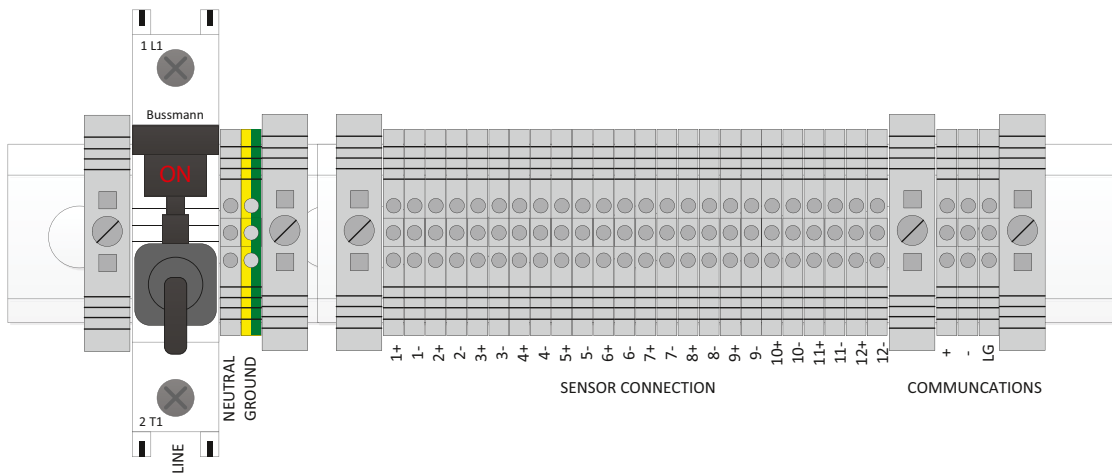
Wall mounting dimensions

10" wide × 14.79" high by 0.3" diameter hole



5 Electrical Connections

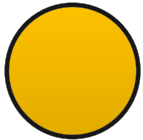
- Do not use wire larger than 16AWG in the terminal blocks.
- Do not cut strands of larger wire to allow the conductor to fit inside the terminal block.
- Connect the GROUND terminal to true earth ground.
- Connect the NEUTRAL terminal to the incoming neutral wire.
- Connect the LINE terminal to the incoming LINE power wire.
- Connect the leak detection sensors to the (+) & (-) terminals on 1-12.



6 Operation

For normal operation the power switch will be in the ON position and the power LED will be illuminated

POWER



OFF



ON

To turn OFF, turn the switch to the left and power will be cut between the fusible breaker and the power supply. This will render the low voltage components safe.

CAUTION: HIGH VOLTAGE IS STILL PRESENT BETWEEN POWER INPUT AND SWITCH

7 Accessories

Optional audible alarm indication can be installed when ordered with the panel.

8 Troubleshooting

Condition	Possible Cause	Suggested Correction
No power indication	Not plugged in	Plug in power cable
	Blown fuse	Locate cause & Replace fuse
	Circuit breaker turned off	Locate cause & reset breaker
	Power switch turned off	Turn power switch ON
False leak detection	Failed switch	Replace switch
	Damaged wire	Replace damaged wire
No leak detection	Improper wiring	Verify sensor terminal wiring
	Failed switch	Replace switch
	Damaged wire	Replace damaged wire
	Break in piping system	Repair pipe
Won't communicate	Improper addressing	Correct addressing
	Mis-wired	Verify wiring

If problem still exists please call Technical Support at (800) 854-4090 for assistance

9 Specifications

General Indication

- 12 red leak indicators
- 1 green power indicator
- Single pole ON/OFF rotary power switch

Material

- Gray hot molded fiberglass reinforced polyester enclosure
- Twist-lockable door latches
- Stainless steel hardware
- 12"×14" NEMA 4X / IP65 Enclosure
- 7 conduit entry ports with liquid-tight connectors
- 16-26AWG Feed-through terminal blocks

Electrical

Power Input

- 100 – 240VAC, 37VA, 50-60Hz
- 110VAC Grounded power cord installed

Power Output

- 24VDC, 1.3A

Protection

- Fusible single pole circuit breaker, 250V 5A fast blow, LOTO capable

Sensor Input

- 12 discrete dry contact 2-wire type connections

Outputs

- 12 Lighted indications for leak detection
- MODBUS / RS-232
- RS-485

Environmental

Operating Temperature:

- 32°F to 131°F (0°C to 55°C)

Operating Humidity

- 20% to 90% relative humidity (no condensation)

Optional Alarm contact

GF Piping Systems

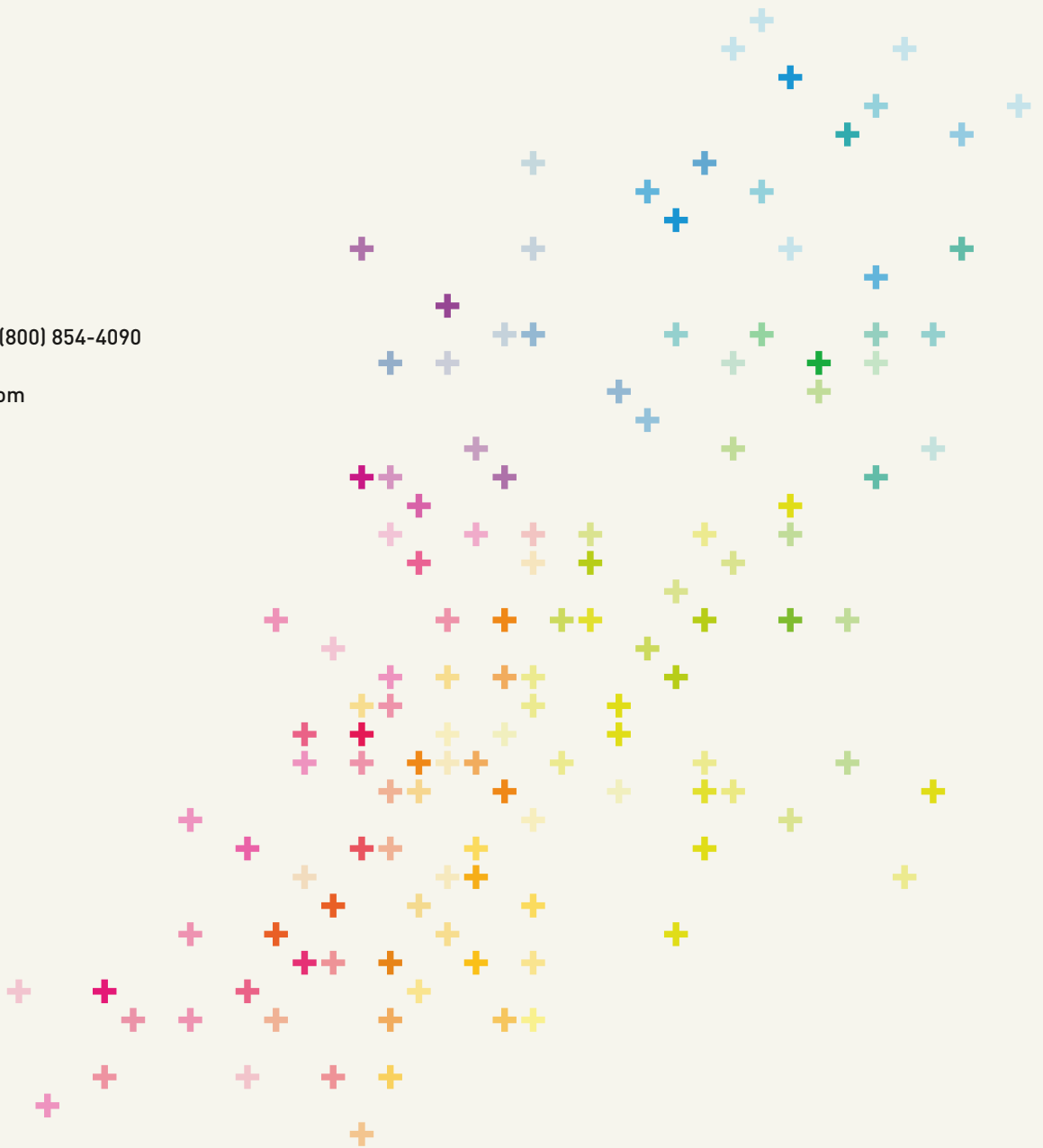
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