GF Piping Systems

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Leak Detection Systems

// 918Q Alarm Box
// PAL-AT Continuous Cable System
// Low Point Leak Detection System

918Q Alarm Box

For a simple and low-cost leak detection alarm system, our 918Q Alarm Box is the product of choice for detecting leakages in a double-contained piping system. The alarm box handles up to four sensor signals with the ability to sound an alarm in the event of a leak. In a typical installation, sensor signals (input devices) are installed at the low point of a double-contained piping system. When the liquid triggers the sensor (e.g., level switch), a signal is sent to the alarm box. The alarm box can be used with Georg Fischer's Double-See, Contain-It, and Fuseal Squared double-contained piping systems.

The alarm box is sold separately from our polypropylene level switch offering.

Part No.	Description
150 240 001	918Q Alarm Box

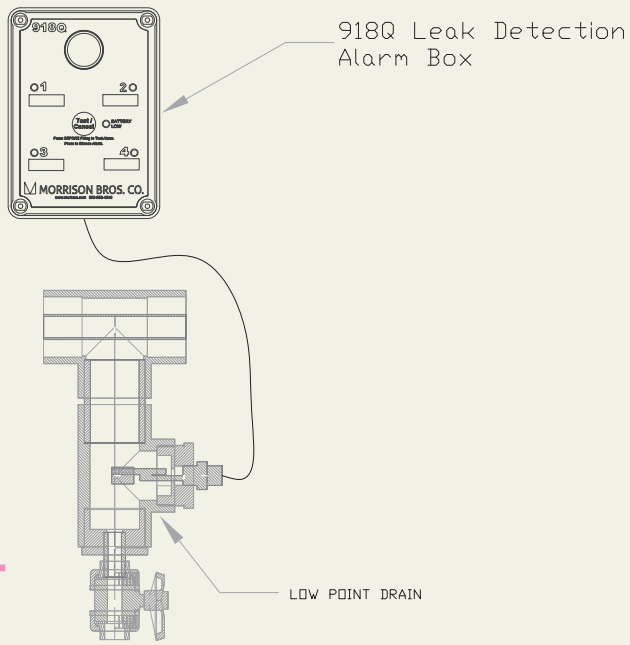
Features

- Handles up to four sensor signals
- Audible and visual alarm indicators
- Replaceable lithium batteries
- Compliance with UL 913 and CSA 157 safety standards
- 90 dB alarm sounds at four feet away
- Low battery visual indicator

Advantages

- Economical
- Space-saving
- Ease of installation
- 500-ft maximum distance from sensor to box
- Configured to respond to either "normally open" or "normally closed" contacts

Sample Application



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PAL-AT Continuous Cable Leak Detection System

For continuous leak detection, Georg Fischer offers the PAL-AT continuous cable leak detection system. PAL-AT is a microprocessor system with multi-sensing and remote monitoring capabilities. The presence of liquids to "wet" the cable will cause a change of the reflection at that specific location. When the system recognizes the change, it will enter into automatically enter into alarm mode and creates a new "map". This will then become the base line for the system, allowing PAL-AT to continue monitoring the cable for growing leaks, new leaks, breaks, shorts and/or faults. The system is capable of monitoring up to four separate sensing zones each having up to 7,500 ft. of sensor cable. The versatility of the PAL-AT makes it ideal for Georg Fischer's Double-See, Contain-It and Fuseal Squared double contained piping systems.

Part No.	Cable Capacity	Maximum Cable Range (ft.)
150 000 061	1	3000
150 000 064	1	7500
150 000 065	4	7500

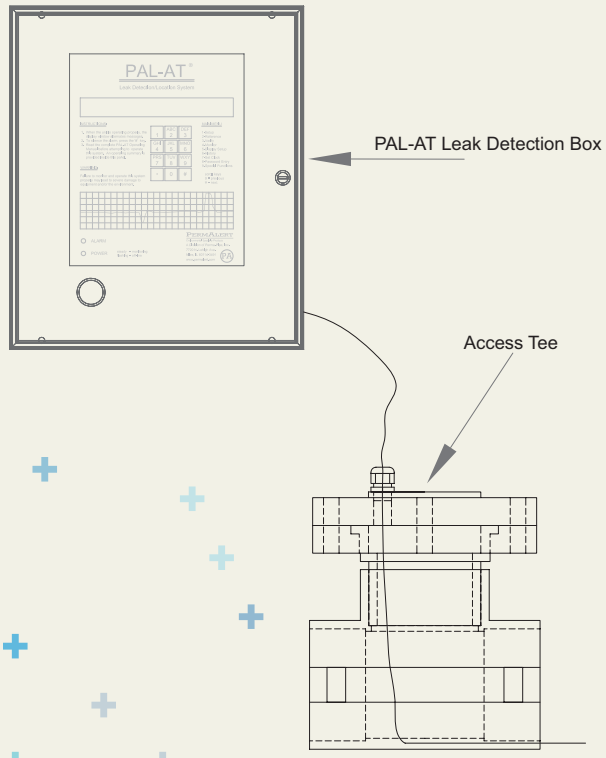
Features

- Locates multiple leaks without loss of accuracy or sensitivity
- Detects growing leaks
- Locates breaks and shorts to reduce downtime
- Stores information with time and date
- Monitors for leaks up to location of breaks/shorts
- Ethernet and RS-232/RS-485 serial ports
- Accepts probe and cable sensors in one sensor string
- Able to commission system with limited initial lengths of wet cable
- Not susceptible to dust/dirt contamination of the sensor string
- Zener barrier panel (ZBP) provides intrinsically safe sensor cable output circuits for hazardous locations:
  - Class I, Division 1, Groups C & D Zone 0, Group IIB
- Modbus TCP, RTU, and RTU over TCP protocols

Advantages

- Wet cable start-up and multiple leak locations
- Monitor up to four separate sensing zones
- Low-power installation
- System archives
- Security system
- UL listed, CE compliance, and EPA third-party tested

Sample Application



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Low Point Leak Detection System

Georg Fischer's 12-point leak detection system uses 12 discrete inputs for individual point leak detection. This allows for pinpointing a leak to a specific connection point in the double-contained piping system.

When the liquid triggers the sensor at a specific point, the indicator lamp illuminates the corresponding alarm point light. The alarm output also activates, allowing for external alarm notification. The leak detection system includes two RS-232 and one RS-485 communication ports for communications within a building automation system.

This 12-point leak detection system can be used with Georg Fischer's Double-See, Contain-It, and Fuseal Squared double-contained piping systems.

The leak detection system is sold separately from the sensors, allowing for customizing and combining of different sensors based on the specific applications.

Part No.	**Description**
150 00 0060	Low Point Leak Detection System

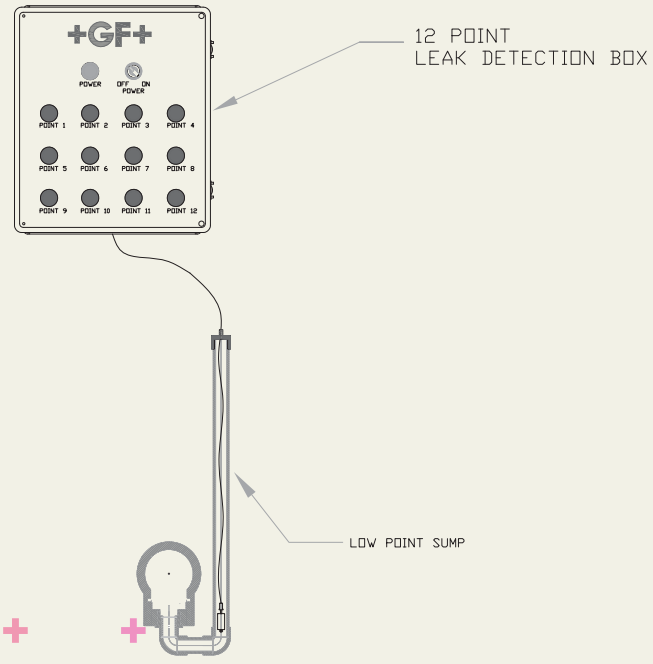
Features

- 12-point leak detection system
- 14" × 12" NEMA 4 enclosure with locking latches
- Internal fusible breaker for power protection.
- 12 red LED indicators for leak detection at specific points
- RS485 communications for building automation
- Alarm output terminals for remote alarm indication
- Optional audible alarm available
- Accepts a wide variety of leak detection sensors

Advantages

- Economical
- Ease of installation
- Output functionality
- Available in more than 12 points

Sample Application



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