HydroCheck
Engineered for Reliability

Leak Detector Pro

Overview

The Leak Detector Pro utilizes HydroCheck's patented water sensor technology to offer an all-in-one solution for quick water leakage detection. This WaterWatcher Leak Detector operates in up to four independent sensor zones, offering effective water monitoring. The system includes dedicated relay outputs for each sensor zone, while a master relay facilitates an overall leak detection mechanism. Designed considering the easy installation, high reliability and peak accuracy in leak detection and includes DIN rail mounting and power requirements ranging from 10 to 30 VDC. The Leak Detector Pro features configurable settings for operational modes and reset functions. Suitable for various commercial and industrial environments, including water treatment rooms, server rooms, basements, and office buildings.

Specifications

Sensor Cable	
Max length	100 ft
AWG	Min: 22 AWG, Max: 12 AWG
Connections	Screw Terminal
Leak detector package	
Power Requirements	10 – 30 VCD @ .25 Amps, 60 Hz
Housing Size (w × d × h)	4.25" x 3.5" x 1.25" (107.95 mm x 88.9 mm x 31.75mm)
Housing Mounting	35 mm DIN Rail
TDS Thresholds	
Low	~2 ppm
High	~160 ppm
Operating Temperature	50 °F to 85 °F
Output Relays	N.O., 5 Amp Resistive Load, 2 Amp Inductive Load

Features

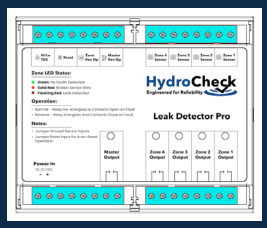
- **Multiple Zones:** Can monitor up to 4 independent sensor zones for precise and accurate water leak detection.
- **Master Relay:** Helps in effective operation, activates if any zone detects a leak or fault.
- **Dedicated Output Relays:** Each sensor zone has its respective relay output for specific alerts.
- **LED Indicators:** Displays zone status and master relay state.
- **Configurable:** Adjustable for normal/reverse operation and auto/manual reset.
- **High Amp Relays:** Each zone relay supports up to 5 Amp resistive or 2 Amp inductive load.
- **Easy Installation:** Simple setup with minimal configuration settings required.

Troubleshooting

Problem	Cause	Solutions
All LEDs are off	▪ Faulty power source ▪ No power supply connectivity ▪ The power fuse has blown	▪ Check power connections at unit ▪ Check power connections at power supply ▪ Check power supply output
Detector Won't Reset	▪ Incorrect installation ▪ Reset input missing ▪ Ground faults wiring issue ▪ Loose cable connection	▪ Check all sensors and confirm that there is no leak and sensors are sitting on dry surface ▪ Check sensor cables for breaks ▪ Check cable connections at sensor and at Zone Inputs ▪ Check operation of reset pushbutton (if used) ▪ Check jumper connections if auto reset selected ▪ Check the environmental conditions near the detector

Installation Guide

The Leak Detector Pro should be mounted in an appropriately NEMA rated enclosure to protect it from the local environment.



Configuring the controller inputs

Reset:
- Jumper for auto-reset
- NO pushbutton for manual reset

Unused zones:
- Jumper to disable broken wire fault

Sensitivity:
- Leave open for treated water (low TDS)
- Jumper for untreated water (high TDS)

Power:
- Connect to 10 – 30 VDC power supply (observe polarity)

Configuring the controller outputs

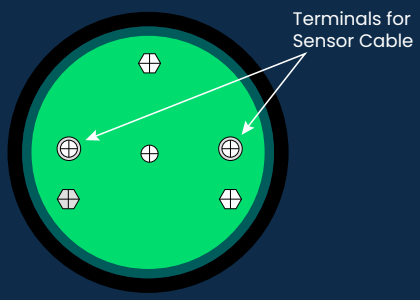
Master Output
- No jumper for normal operation (relay opens on fault)
- Jumper for reverse operation (relay closes on fault)
- Green LED: No faults detected
- Flashing Red LED: Leak detected

Zone Outputs
- No jumper for normal operation(relay opens on fault)
- Jumper for reverse operation (relay closes on fault)
- Green LED: No faults detected
- Red LED: Broken sensor wire
- Flashing Red LED: Leak detected

Connecting the sensing cables

For configuration, a 2-conductor cable should be run from each sensor to a Zone Input on the Leak Detector Pro controller. Only one sensor can be used per zone. Note that the connections are not polarized.

- Protect cables from damage
- Place sensors in dedicated leak detection areas
- Jumper unused sensor zone inputs to avoid "Broken Wire" faults



Warranty

STAK Enterprises Inc. warrants the Leak Detector Pro to be free from defects in materials and artistry under regular use and service for five years from the date of purchase. STAK Enterprises Inc. makes no other express or implied warranty for this device. No agent, representative, dealer, or employee of STAK Enterprises Inc. has the authority to increase or alter the obligations or limitations of the warranty. The company's commitment to this warranty shall be limited to the repair or replacement of any part of the Leak Detector Pro which is found to be defective in materials or workmanship under normal use and service during the five-year period commencing with the date of purchase. During the initial 90-day period commencing with the date of purchase, such repair or replacement shall be made without charge. During the remaining period of the warranty, such repair or replacement shall be made at a charge to the customer to stay within the manufacturer's cost.

THE DURATION OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THAT OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSES, SHALL BE LIMITED TO THE PERIOD OF ONE YEAR COMMENCING WITH THE DATE OF PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER.