



## PRODUCT FEATURES

- Senses water-based liquids within seconds of contact
- Sensitivity from several inches to several feet
- Durable sensor cable
- Available in three standard sensor lengths: 50 ft (15 m), 75 ft (23 m), and 100 ft (30 m)  
Special lengths available upon request
- Comes in a kit, complete with 25 ft (7.5 m) of jumper cable, sensor cable, cable clips, and cable tags.

The **FluidWatch® Leak Detection Monitoring Unit** has been engineered to monitor small areas for water leaks. Typical applications include unmanned equipment rooms, small raised floor areas, and small tanks. The system continuously monitors the capacitance of the sensor cable and detects changes from the initial value.

**FluidWatch** can be powered by 120 VAC, 240 VAC or 24 VDC. Just seconds after the coaxial sensor cable contacts water or water-based liquids, the unit enters into alarm. The sensor can be quickly dried in place after the

leak is cleaned up and the system put back on-line.

The **FluidWatch** system uses an LED "traffic light" display to indicate status: Green - system normal, Yellow - sensor cable break and Red - wet cable. The alarm unit activates an audible alarm and two 10 A, 250 VAC, SPDT relays when either a leak or break occurs. There are only two operator buttons. One is used to periodically test the system and the other to silence the alarm. The silence button can be disabled via an internal switch to prevent unauthorized alarm silencing.

There is an internal switch to select a desired alarm threshold from several inches to several feet to suit any application. Another internal switch is used to select whether the system will silence the alarm automatically upon cable reset or require an operator to manually push the silence button.

**FluidWatch** is available with three sensor cable units. Each model comes complete with a monitoring unit, jumper cable and sensor cable, cable clamps, and cable tags. All cable connectors are factory installed.

Model Number	Part Number	Sensor Cable Length-ft (m)
FW25-50	8027870	50 (15)
FW25-75	8027871	75 (23)
FW25-100	8027872	100 (30)

# SPECIFICATIONS

## PART 1 • SYSTEM

### 1.1

The FluidWatch Leak Detection System shall consist of an electronic monitoring unit, coaxial water-sensing cable, interconnecting jumper cable, cable clamps, and identification tags required for a typical installation. All cable connectors shall be factory installed.

The system supplier shall have at least ten years of experience in the manufacture of the leak detection systems.

## PART 2 • COMPONENTS

### 2.1

The monitoring unit shall be able to monitor one length of sensing cable. Three LEDs shall be visible on the door of the unit indicating System Monitoring (Green), Leak Detected (Red) or Wire Break (Yellow). The unit shall have an audible alarm and be equipped with two normally energized SPDT Form 1C relays having contacts rated for 10 A continuous @ 250 VAC. The audible alarm and relays shall

be activated in the event of a leak or a continuity fault.

The system shall have two external switches for operator input test and alarm silence. Internal switches shall select cable sensitivity (high, medium, and low), enable the silence button, enable automatic silence on the cable reset and select 120/240 VAC operating voltage.

The monitoring unit shall be powered by [120 VAC] [240 VAC] [24 VDC]. It shall be housed in a modified NEMA 4X nonmetallic enclosure with nominal dimensions of 7" x 7" x 3".

### 2.2

The standard sensor shall be a coaxial cable consisting of an insulated center conductor, water permeable dielectric core, and outer braid conductor.

The sensing cable shall have the ability to detect the presence of water at any point along the cable's length. The cable shall be easily field repairable, flexible, and carry less than 6 VDC under normal operating conditions.

The sensing cable shall be available in

lengths of 50, 75, and 100 ft. All sensing cable shall be supplied with connectors.

### 2.3

The system shall include one monitoring unit, one length of sensing cable, one 25 ft (7.5 m) jumper cable to connect the sensing cable to the monitoring unit, one cable clamp for every 5 ft (1.5 m) of sensing and jumper cable and five cable tags.

## PART 3 • INSTALLATION

### 3.1

All FluidWatch system components shall be installed in accordance with manufacturer's installation instructions.

### 3.2

The monitoring unit shall be installed and powered in accordance with NEC and local code requirements.

### DESCRIPTION:

- Unit Dimensions: 6.89" H x 6.89" W x 2.88" D  
(175 mm x 175 mm x 73 mm)
- Power: 120/240 VAC 50/60 Hz, 6VA, 24 VDC 6 W
- Unit Weight: 2 lb (1 kg)
- Unit Operating Temperature: 0°F to 120°F  
(-18°C to 50°C)
- Jumper Cable Length: 25 ft (7.5 m)
- Available Sensor Cable Lengths:  
50 ft (15 m), 75 ft (23 m), 100 ft (30 m)

### ALARM OUTPUTS:

- AUDIBLE ALARM
- RED, YELLOW, GREEN LED's
- 2 - 10 A SPDT RELAYS

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PermAlert ESP • 7720 North Lehigh Avenue • Niles, IL 60714  
(847) 966-2190, Fax (847) 470-1204, [www.permalert.com](http://www.permalert.com)