



**PRODUCT FEATURES / BENEFITS**

- Senses water-based liquids within seconds of contact
- Sensitivity from several inches to several feet
- Durable sensor cable
- Not susceptible to dust/dirt contamination of the sensor string
- Special lengths available upon request
- Comes in a kit, complete with jumper cable, sensor cable, cable mounts, and cable tags.

The **FluidWatch®** Leak Detection System 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 or a short. The alarm unit activates an audible alarm and 10 A, 250 VAC, SPDT relays when either a leak or break occurs. There are two operator buttons. One is used to test the system periodically 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 adjustment 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 push the silence button manually.

**FluidWatch** is available with three sensor cable lengths or as a special. Each model comes complete with a monitoring unit, jumper cable and sensor cable, cable mounts, and cable tags. All cable connectors are factory installed. The sensor string can be mixed lengths of jumper and sensor for monitoring multiple areas.

Model Number	Part Number	Sensor Cable Length	
		ft	(m)
FW25-50	8027870	50	(15)
FW25-75	8027871	75	(23)
FW25-100	8027872	100	(30)
FWXX-XXX	Special*		
*Maximum total length of sensor and jumper cable 125 ft (38 m)			

# 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 mounts, and identification tags required for a typical installation. All cable connectors shall be factory installed.

The system supplier shall have 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 four SPDT Form 1C relays having contacts rated for 10A continuous @ 250 VAC.

A Power/Fault relay shall be normally energized when the system is powered and deactivate after a loss of power. The audible alarm and relays shall be activated in the event of a leak (2 relays) or a continuity fault (1 relay).

The system sensitivity shall be easily adjusted several inches to several feet of wet cable.

The system shall have two switches for operator input: test and alarm silence. Internal jumpers shall enable the silence button and enable automatic silence after the cable resets. Internal switches select AC/DC operating voltage.

The monitoring unit shall be powered by [120 VAC] [240 VAC] [24 VDC]. It shall be housed in a 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.

### 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 mount 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 the manufacturer's installation instructions.

### 3.2

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

### **TECHNICAL DATA:**

- Unit Dimensions: 7.17" H x 7.09" W x 2.46" D  
(182 mm x 180 mm x 62.5 mm)  
Type 12K (IP52)
- Power: 110/240 VAC 50/60 Hz, 10 VA, 24 VDC 3 W
- Unit Weight: 1.75 lb (0.8 kg)
- Unit Operating Temperature: 0°F to 120°F  
(-18°C to 50°C)
- Std. Jumper Cable Length: 25 ft (7.5 m)
- Std. Sensor Cable Temperature Limit 400°F (205°C)

### **ALARM OUTPUTS:**

- AUDIBLE ALARM
- RED, YELLOW, GREEN LEDS
- 4 – 10 A SPDT RELAYS

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