

## LEAD FREE\* AQUASENTRY 2® Temperature Alarm System

### Product Specification

# LEAD FREE\*

#### Description ■

The Series LF460 AquaSentry2® Alarm System monitors mixed outlet temperature for pre-set high and low conditions. The system utilizes a solid state temperature sensor and microprocessor-based digital circuitry to sense and report abnormal temperature conditions. The standard sensing range is -40°F to 199°F or -40°C to 93°C switchable. The system can execute an emergency shutdown function with an optional electrically actuated valve installed.

A latching circuit is used so that the alarm holds despite a return to normal condition. This feature indicates that a dangerous condition did exist. The alarm can be silenced at any time by pressing the reset button. After the temperature returns to normal, the system can be reset by pressing the reset button twice. The system cannot be reset while the temperature is outside the set points. The alarm module can be panel mounted, or installed in a standard 4" x 4" (102mm x 102mm) electrical wall box.

#### Applications ■

The Series LF460 AquaSentry2® Alarm System is ideal for monitoring domestic and institutional hot water system. The AquaSentry2 alarms and shuts down flow (with an electrically actuated valve installed) on high limit conditions. Typical commercial applications include hot water heaters, boilers, sitz baths, shower rooms and therapeutic services. Temperature alarm system units are also designed to monitor and remotely alarm a wide variety of high and low limit industrial process conditions. Typical applications include process heat exchangers, storage tanks, chillers and lube oil coolers. The standard alarm package may be used to monitor off-normal temperature conditions. Alarm modules can also be coupled with a switch-closure device to monitor off-normal pressure, flow, status, humidity, and/or level.

#### Features ■

- LED Temperature Display
- Compact Alarm Panel
- Alarm Horn
- Remote Alarm Location
- High and Low Temperature Monitoring
- Adjustable Temperature Ranges
- Standard 4" x 4" (102 x 102mm) Junction Box with Pre-wired Module

#### Typical Specifications ■

Mounting:	Standard Electrical Box (supplied) 4" x 4" x 2-3/16"
Electrical:	24 VAC
Conduit Size - bottom:	1/2" (15 mm) or 3/4" (19 mm)
Transformer:	115 VAC/24 VAC
Power Consumption:	1.5 VAC
Temperature Range:	40°F - 199°F (4°C - 93°C)
Accuracy:	±1.0°F or ±1.8°C
Operating Ambient:	20°F to 140°F (-7°C to -60°C)
Power Source:	Class 2, 120 VAC isolation transformer, UL and CSA approved (supplied).
Sensor:	Solid state integrated circuit in a 4" x 0.25" SS cap. Mounts in 1/2" (15mm) NPT fitting with supplied adapter.
Display:	4 digit red LED readout.
Relay:	10 amp, 24 VAC, NO or NC, activated during alarm.
Alarm:	One high and one low alarm. Both have fully adjustable set points. Both set points stored in non-volatile memory for memory retention during power failure.



\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

### Components and Accessories ■

Cable (by foot) .....	460-339
Temperature Sensor w/Phone Jack .....	460-601
Transformer .....	460-602
Sensor Junction Box .....	460-603
Electrical Box 4" x 4" x 2-3/16" (102 x 102 x 56mm) .....	460-606

### Motorized Valves/Shock Absorber ■

1/2" NPT .....	LF460070
3/4" NPT .....	LF460071
1" NPT .....	LF460072
1-1/4" NPT .....	LF460073
1-1/2" NPT .....	LF460074
2" NPT .....	LF460075
Shock Absorber 1" NPT .....	460-353

#### **NOTICE**

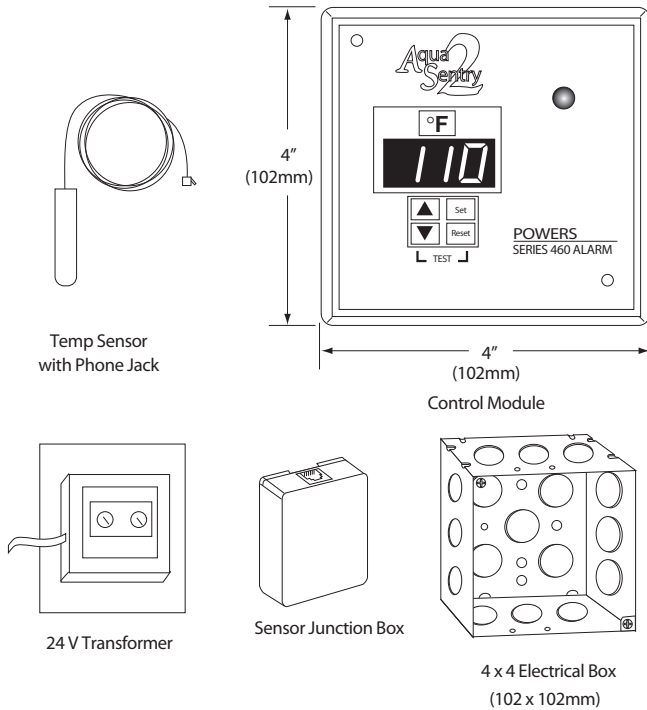
Shock absorber should be used with solenoid or motorized valve.

### Ordering ■

Series 460 AquaSentry 2® Alarm System

Alarm Module include Control Module, Temperature Sensor with Phone Jack, Junction Box, 4"x4" Electrical Box, UL/CSA Approved 24VAC, Class 2 Transformer, and 25' of Station Cable. .... LF4600150

#### Components of AquaSentry 2®



ENGINEERING APPROVAL	
Project:	_____
Contractor:	_____
Architect/Engineer:	_____