

# Home Water Leak Alarm System

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## WS-20

- ◆ Instant alarm
- ◆ Signaling device
- ◆ Self contained
- ◆ Local alarm and flashing LED
- ◆ Low battery indicator
- ◆ 6' Jacketed lead
- ◆ Form C relay
- ◆ Additional sensors, PN WS-20-240-S (20' jacketed lead, max. wire run 106 ft.)  
Up to 6 sensors per unit



### APPLICATION:

The WS-20 is designed as a signaling device for use as a self contained Home Water leak Alarm System. The Model WS-20 will sound a local alarm and flash and LED indicator, should water come in contact with the WS-20 water sensor.

### DESCRIPTION:

The Home Water Leak Alarm System uses a microprocessor to monitor a Water Sensor, a Cancel Button, Supply Voltage and provides control for a Sounder, LED indicator and a Form C Relay. The Water Alarm System is set to alarm the instant water is bridged across the two stainless steel wire straps on the water sensor. The sounder will continue to sound until the reset/cancel button is depressed. Other features for the eWS-20 would include an adjustable sounder volume, power/alarm LED indicator, a latching relay and low battery signal.

### INSTALLATION INSTRUCTIONS:

The WS-20 Home Water Leak Alarm System mounts easily to walls or most any clean flat surface with the supplied double stick tape or mounting screws. The Alarm Sounder box should be mounted about 4 to 5 feet off the ground at the location water leaks are most likely to occur. Avoid locations where spraying or splashing water could come in contact with the Sounder box.

The Water Sensor should be mounted in a location where water pooling or spraying from a leaking appliance will most likely occur. The stainless steel wire straps should be at least 1/16th above any flooring surface. The sensor can be mounted to a wall with stainless steel straps facing down or the sensor can be mounted to the floor surface.

A 9-volt alkaline battery can then be connected to the battery strap or the unit can be powered from an external 12 VDC power supply, connected to the + and - terminals.

**WARRANTY:** One year warranty against workmanship, material and factory defects.

GEORGE RISK INDUSTRIES, INC.  
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Made in U.S.A.

C\_ES 10 Home Water Alarm WS-20

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## OPERATION:

After installation, proper operation is confirmed by verifying the following conditions:

### Normal Condition

1. A short periodic flash from the green LED indicates Normal Operation in dry conditions.
2. While in normal operating condition, depressing the cancel button will place the unit in a stand by condition (sensor disabled). This will be indicated by continually flashing green LED. The unit will remain in this condition for approximately 1 minute then will reset back to Normal Operation.
3. While in the standby condition, a second depression of the cancel button will cause the device to perform a battery test. If the battery voltage is low, the unit will sound a low battery annunciation (3 short beeps 3 times). Immediately after the battery test the unit returns to normal operation. If battery voltage is not low, the unit returns to normal operation without the low battery annunciation.

### Alarm Condition

4. Testing the alarm is performed by holding a damp paper towel or sponge across the two stainless steel wire straps on the sensor until the unit enters the alarm mode. This mode is indicated by a continually annunciating sounder and continually flashing red LED.
5. While in alarm condition, depressing the cancel button will silence the annunciator and place the unit into either an alarm standby condition (sensor still sensing water), or places the unit back to normal operation (sensor not sensing water). If the sensor is still sensing water and the unit enters the alarm standby mode, an alarm standby annunciation will be sounded (6 short peeps 1 time).
6. When in the alarm standby condition, this will be indicated by a slow continuous flashing red LED, and a periodic sounding of the alarm standby annunciation. Depressing the cancel button while in the alarm standby mode will only cause re-sounding of the alarm standby annunciation. The unit will automatically return to normal operation only after the sensor no longer senses water.

After installation these units should be tested with a damp sponge or paper towel and inspected annually. If there is any corrosion or damage the sensor should be replaced.

### Specifications

Battery Type	9 Volt Alkaline
Battery Life (approximate)	6 months
Recommended External Power	9 to 12 VDC @ 100 mA
Low Battery Mode	6.5 VDC
Sounder Rated	85 dB at 10 ft. (3.5 M)
Wire Run	106' Maximum

### Relay Contacts

Nominal Switching Capacity	2A @ 30VDC
Max. Switching Power	60 Watts
Max. Switching Current	2 Amps

### Terminal TM1

1	External 12 VDC
2	Ground (-)
3	Remote Reset
4	Sensor Black Wire
5	Sensor White Wire
6	Sensor Red Wire

### Terminal TM2

1	Relay N/O
2	Relay Common
3	Relay N/C

### Sounder Volume

#### Control JP-1

<input checked="" type="checkbox"/>	Full Volume
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	3/4 Volume
<input checked="" type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input checked="" type="checkbox"/>	1/2 Volume
<input checked="" type="checkbox"/>	

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