

5500 Moisture Detection Series

Models: 5501 Moisture Processor
5505 Under Carpet Sensor
5515 Surface Mount Sensor

Installation Instructions

Description

The 5500 Moisture Detection Series is designed to respond to the presence of water and other nonflammable conductive liquids and to be connected in the closed loop of an alarm system. Sensors include Model 5505 Under Carpet Sensor and Model 5515 Surface Mount Sensor. Any combination of up to four sensors can be used with Model 5501 Moisture Processor.

The 5501 Moisture Processor can be used with any closed loop control, dialer, or wireless transmitter input circuit. The processor comes with internal lithium batteries that have an anticipated life of 10 to 15 years. The processor offers flexibility in mounting with no need for an external power source and minimal wiring required.

Installation

- 1 To open the processor, insert a small, flat-bladed screwdriver in the slot at top or bottom of the unit and pry the cover up from the base.
- 2 Mount the processor using the mounting holes shown in Figure 1.
- 3 Placement of the sensors depends on the model type:

Model 5505 - Insert the sensor beneath carpeting or rugs. When padding is used, position the sensor between the padding and the carpet. The sensor can be walked on, so there is no need to avoid high traffic areas.

Model 5515 - The sensor can be mounted to any surface and in any position, using screws or double-sided tape.

Wiring

The sensors are wired in parallel (see Figure 1) without the need to observe polarity. The connection for output, however, is polarity sensitive and should be verified by actually triggering the processor and allowing the control, dialer, or transmitter to operate.

Testing

Press the test button (see Figure 1) for 15 seconds to simulate the presence of water and activate the processor (the LED will flash). Release the button to restore the processor to normal.

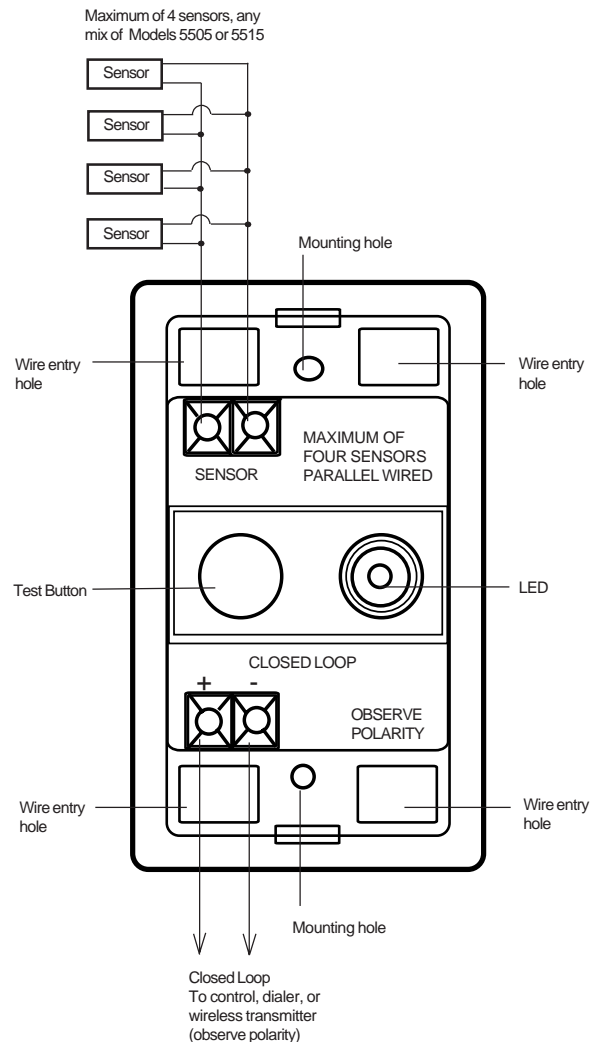


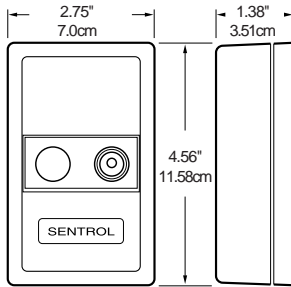
Figure 1.

Operation

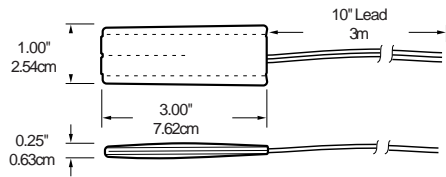
A time delay circuit is provided to reduce the chance of false alarms. The processor requires the presence of moisture for 10 seconds before going into alarm mode. It will stay in alarm mode until the moisture is removed from the affected sensor (s). When tripped, the LED will flash at 2-second intervals until the sensor is dry. Isolation from "ground" is obtained by the use of optical coupling between sensor input and processor output circuits.

Dimensions

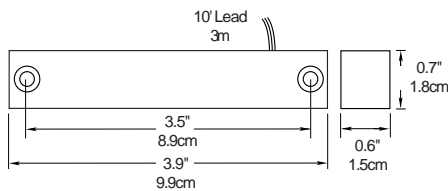
5501 Moisture Processor



5505 Under Carpet Sensor



5515 Surface Mount Sensor



Specifications

Loop type	Closed
Battery type	Lithium
Battery life	Approximately 10 to 15 years
Alarm response	10 seconds delay, then on as long as wet
Test button	Simulates moisture for test
LED	Flashes every 2 seconds on alarm
Trigger resistance	500K ohm
Sensor isolation from ground	Photo coupled
Sensing circuit	AC to eliminate electrolysis (1 Hz)
Cable length	100 feet (30m) maximum
Loop resistance	10 ohms maximum (non-alarm) 1 M ohm minimum (alarm)
Operating temperature	5501 Moisture Processor, 0° F to 125° F (-17° C to 51° C) 5505 and 5515 sensors, 33° F to 180° F (0° C to 82° C)
Number of sensors per processor	4 maximum

Ordering Information

Model Number	Description	Loop Type	Color	Lead
5501	Moisture Processor	Closed	Mahogany brown	Terminals
5505	Under Carpet Sensor	N/A	White	10 ft (3m)
5515	Surface Mount Sensor	N/A	Gray	10 ft (3m)



GE Interlogix

12345 SW Leveton Drive
Tualatin, OR 97062
www.interlogixsecurity.com
www.sentrol.com

Phone: 503-692-4052
USA & Canada: 800-547-2556
Technical Service: 800-648-7424
FaxBack: 800-483-2495