

5500 Moisture Detection Series Installation Instructions

Introduction

The 5500 Moisture Detection Series is designed to respond to the presence of water and other nonflammable conductive liquids. It is connected in the closed loop of an alarm system. You can use up to four surface-mount 5515 sensors with the 5501 moisture processor.

You can use the processor with any closed loop control panel, dialer, or wireless transmitter input circuit. The processor comes with internal lithium batteries with an anticipated life of 10 to 15 years. The processor provides flexibility in mounting with no need for an external power source and minimal required wiring.

Operation

A time delay circuit is provided to reduce the chance of false alarms. The processor requires the presence of moisture for ten seconds before going into alarm mode. It will stay in alarm mode until the moisture is removed from the sensor. When tripped, the LED will flash at two-second intervals until the sensor is dry. Optical coupling between sensor input and processor output circuits provides isolation from ground.

Installation

To install the series, do the following:

1. Insert a small, flat-bladed screwdriver in the slot at the top or bottom of the processor and pry the cover off the base.
2. Mount the processor using the mounting holes shown in Figure 1 below.
3. Mount the 5515 sensors to any surface and in any position, using screws or double-sided tape.

Wiring

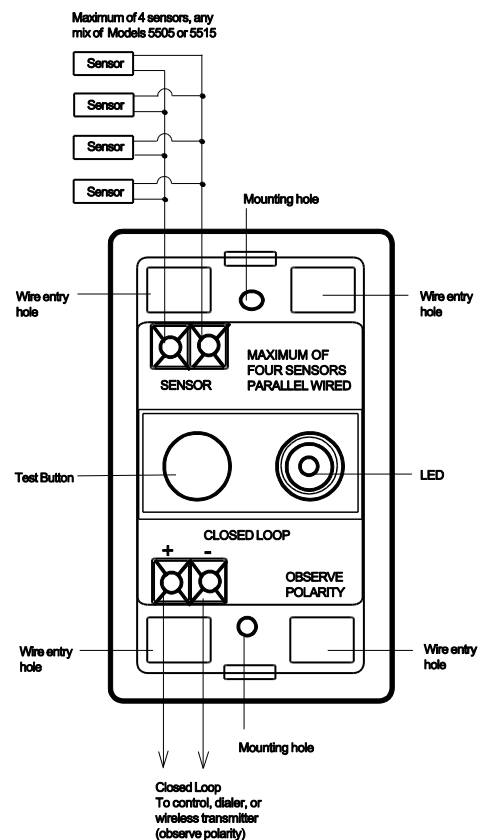
Wire the sensors in parallel (Figure 1 below). You do not need to observe polarity. The connection for output on the

processor, however, is polarity sensitive. Trigger the processor and allow the control panel, dialer, or transmitter to operate to verify the connection.

Testing

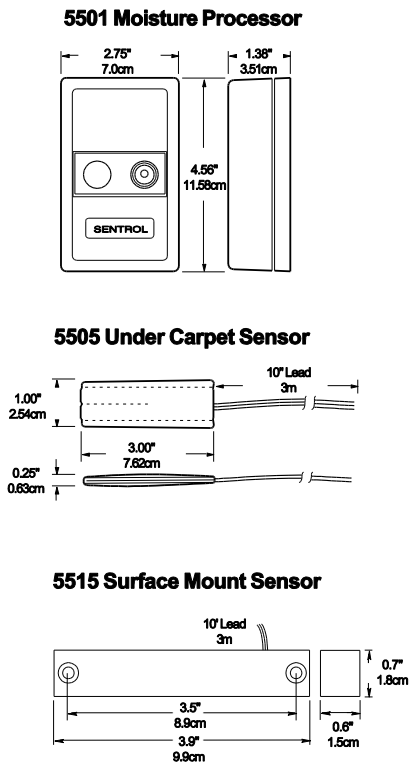
Press the test button (Figure 1 below) for 15 seconds to simulate the presence of water and activate the processor (the LED will flash). Release the button to restore the processor to normal operation.

Figure 1: 5500 moisture detection series



Dimensions

Figure 2: Dimensions



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 response	500 K ohm
Sensor isolation from ground	Photo coupled
Sensing circuit	AC to eliminate electrolysis (1 Hz)
Cable Length	100 ft. (30 m) maximum
Loop resistance	10 ohms maximum (nonalarm) 1 M ohm minimum (alarm)
Operating temperature	
5501 processor	0 to 125°F (-17 to 51°C)
5515 sensors	33 to 180°F (0 to 82°C)
Number of sensors per processor	4 maximum

Ordering information

Model #	Description	Loop type	Color	Lead
5501	Moisture processor	Closed	Mahogany brown	Terminals
5515	Surface-mount sensor	NA	Gray	10 ft. (3 m)

Regulatory information

Manufacturer PLACED ON THE MARKET BY:
UTC Fire & Security Americas Corporation, Inc.
3211 Progress Drive, Lincolnton, NC, 28092,
USA

AUTHORIZED EU REPRESENTATIVE:
UTC Fire & Security B.V.
Kelvinstraat 7, 6003 DH Weert, Netherlands

Product warnings and disclaimers

THESE PRODUCTS ARE INTENDED FOR SALE TO AND INSTALLATION BY QUALIFIED PROFESSIONALS. UTC FIRE & SECURITY CANNOT PROVIDE ANY ASSURANCE THAT ANY PERSON OR ENTITY BUYING ITS PRODUCTS, INCLUDING ANY "AUTHORIZED DEALER" OR "AUTHORIZED RESELLER", IS PROPERLY TRAINED OR EXPERIENCED TO CORRECTLY INSTALL FIRE AND SECURITY RELATED PRODUCTS.



For more information on warranty disclaimers and product safety information, please check <https://firesecurityproducts.com/policy/product-warning/> or scan the QR code.

Contact information

www.utcfireandsecurity.com or www.interlogix.com

For customer support, see www.interlogix.com/customer-support