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locateWater Sensor

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Introduction

Water can enter a building in many different ways and, in some cases, remain undetected. This can cause damage and problems to sensitive electronic equipment. Computer and mainframe rooms which have a false floor and ceilings could harbor undetected water, which is only detected after a problem occurs.

The locateWater sensor is capable of detecting the presence of water at a specific location. It contains a microprocessor controlled capacitance measuring circuit which is far more precise than commercially available standard water detectors which measure the resistance of water.

The detector provides feedback to the web based interface which will indicate the presence of water at a specific location on the rope with a Normal/Alert, or Critical indication. The unit will retain any error condition until it is read via a *snmpget*. Therefore, if it encounters a critical condition at any time, it will report that condition before it returns to a normal state.

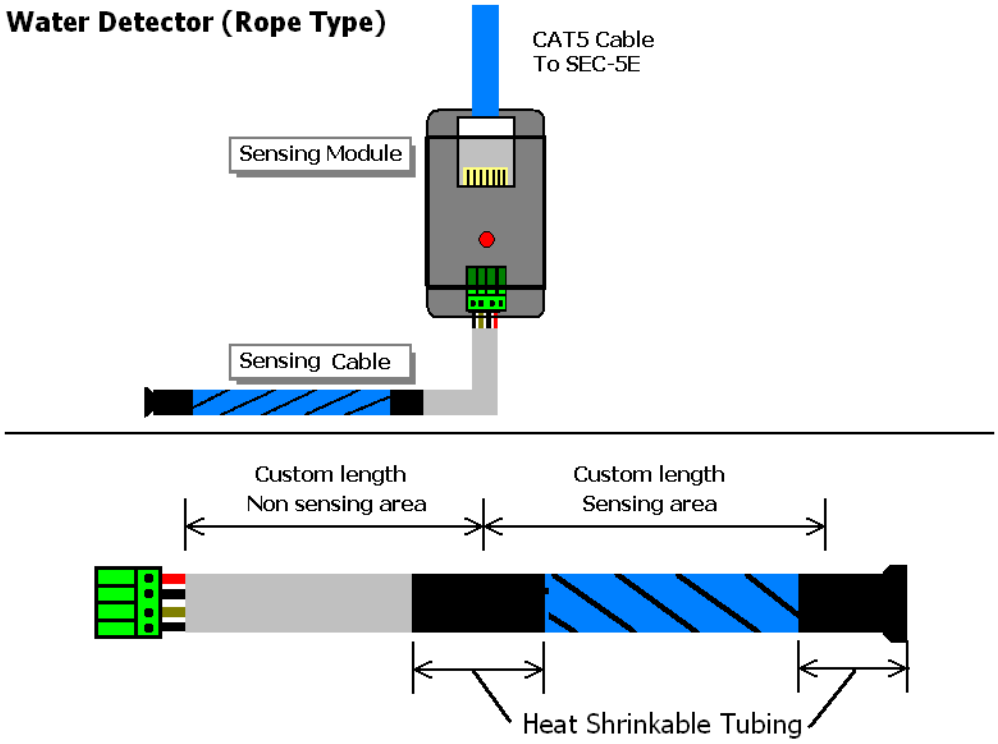
The value of the status for the SNMP OID for the locateWater sensor can be Normal, No Status, Critical or Sensor Error.

locateWater sensor OID:

For a switch type sensor on RJ45#1 the OID for the status is **.1.3.6.1.4.1.3854.1.2.2.1.18.1.3.0**

Features:

- On/Off alarm signal of Water detected
- Accurate, cost effective Water detecting system
- Rope portion of the sensor is submersible
- Sensor type - open/closed contact switch
- Power source: powered by the unit. No additional power needed.
- Power Consumption: Typical 125 mWatt, 25 mA
- The unit auto detects the presence of the locateWater sensor
- Up to 2 locateWater sensors per unit sensorProbe2.
- Up to 8 locateWater sensors per unit sensorProbe8.
- Hundreds of locateWater sensors per securityProbe 5E and E-sensor8 E-modules
- Full Autosense including disconnect alarm if cut, broken, or disconnected
- Sensing rope cable can be pre-ordered from a 10 foot minimum to any custom run length of up to 165 feet or 50 meters.
- Non-sensing cable comes in a standard 20 foot run length.
- Can be connected to any of the sensorProbe or securityProbe's 8 RJ-45 Intelligent sensor ports or any of the securityProbe 5E's E-sensor8 expansion module ports.
- Can be extended up to 100 feet, or 30 meters using normal CAT5\6 LAN cable from the RJ-45 sensor ports.
- Measurement range: Wet or Dry (-20 degrees C- +60 degrees C)
- Comes fully assembled and includes the rope portion that is the water sensing cable, the non-sensing area cable (from the rope to the sensing module) and the main sensing module.



locateWater sensor product assembly diagram

Configuring the locateWater sensor

a) Plug the sensor into one of the RJ45 ports on the rear panel of the unit or expansion module.

b) Now point your browser to the IP address of the unit (default, 192.168.0.100). Next you need to login as the administrator using your administrator password (default is “public”). You will then be taken to the summary page.

c) From the summary page you need to select the sensors tab. The layout of the next page will vary depending on your unit so please refer to your unit’s manual.

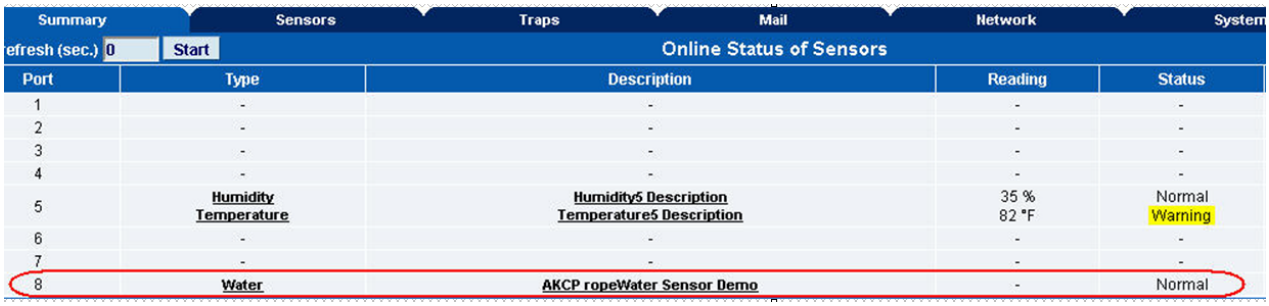
d) You should now be able to setup the thresholds for your sensor. The low critical, low warnings, normal, high warnings, high critical values can be set from this page.

Now we will cover the settings that are specific to your sensor.

Status: If the sensor is offline, the status is No Status. If the sensor is online, and there is no water detected, the status is Normal. If water is detected, then the status is Critical. If at any time communications with the locateWater sensor are lost, the status of the locateWater sensor is changed to Sensor Error.

Configuring the locateWater sensor on a sensorProbe unit

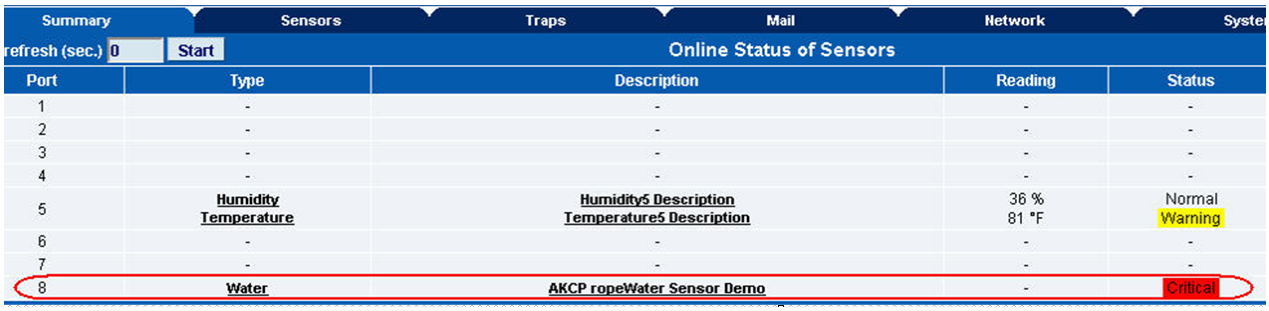
The locateWater sensor shows the “Normal” status in Summery page after connecting the sensor.



Port	Type	Description	Reading	Status
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	Humidity Temperature	Humidity5 Description Temperature5 Description	35 % 82 °F	Normal Warning
6	-	-	-	-
7	-	-	-	-
8	Water	AKCP ropeWater Sensor Demo	-	Normal

Use the Sensors page and the Water Detector sensor settings in the sensorProbes web interface for configuring the locateWater sensors settings.

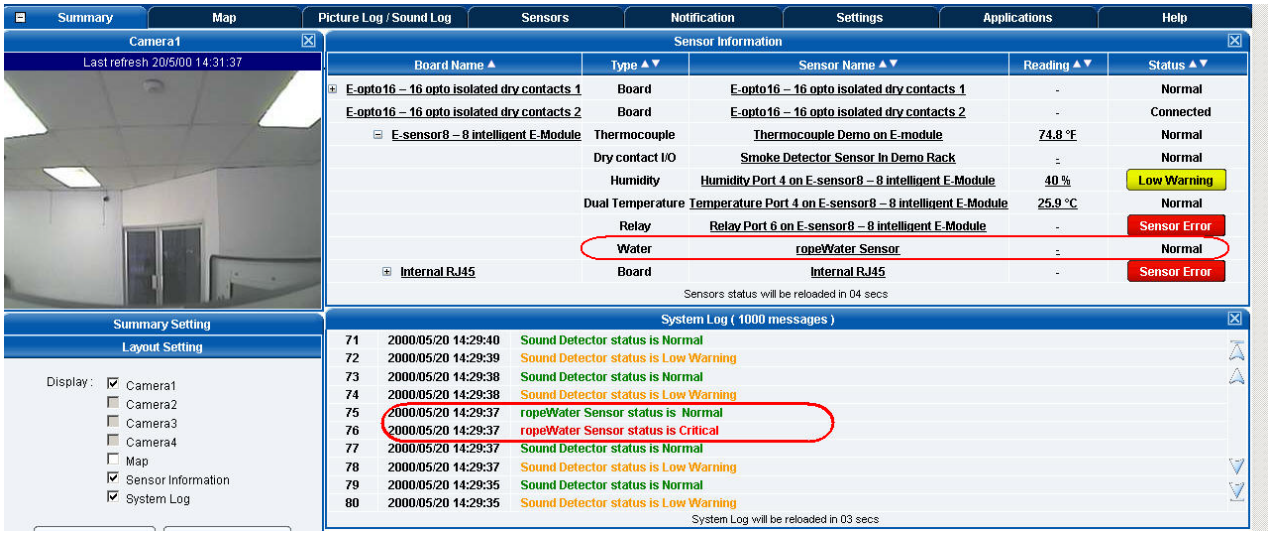
The locateWater sensor shows the “Critical” status in the Summery page after detecting water.



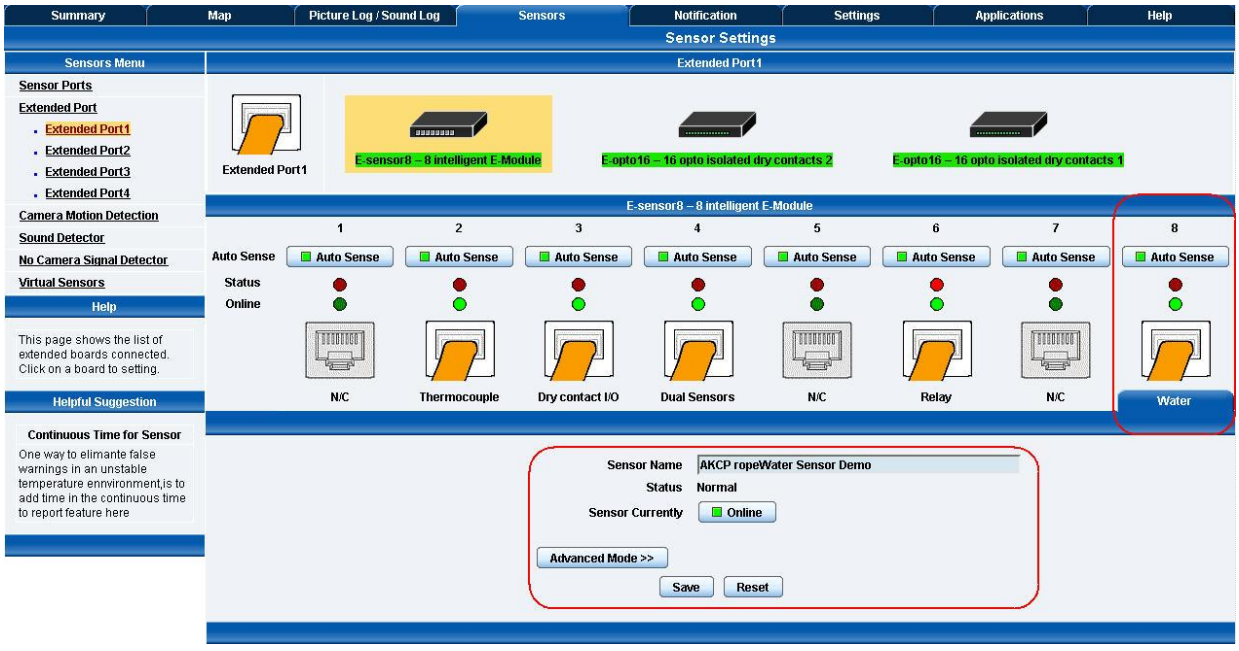
Port	Type	Description	Reading	Status
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	Humidity Temperature	Humidity5 Description Temperature5 Description	36 % 81 °F	Normal Warning
6	-	-	-	-
7	-	-	-	-
8	Water	AKCP ropeWater Sensor Demo	-	Critical

Configuring the LocateWater sensor on a securityProbe or a securityProbe 5E unit

The locateWater sensor shows the “Normal” status in Summery page after connecting the sensor and when water is detected is will show “Crtical” in this page and the syslog:



Use the Sensors page and the Water Detector sensor settings in the sensorProbes web interface for configuring the locateWater sensors settings.



Mounting the locateWater sensor

We recommend using any standard plastic U-clip with the adhesive base as shown in these two pictures below. These types of clips can normally be found at your local hardware store.

When installing or handling your new rope sensor, please be sure to handle the rope portion of the sensor with care, avoiding any twisting, excessive bending or putting stress on the rope, as the internal sensing wires are very delicate and can become damaged quite easily.

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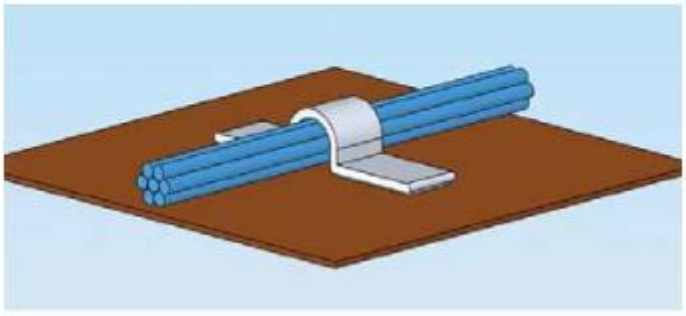
U-Clip with Adhesive Base



HUC

Half U-Clip with Adhesive Base