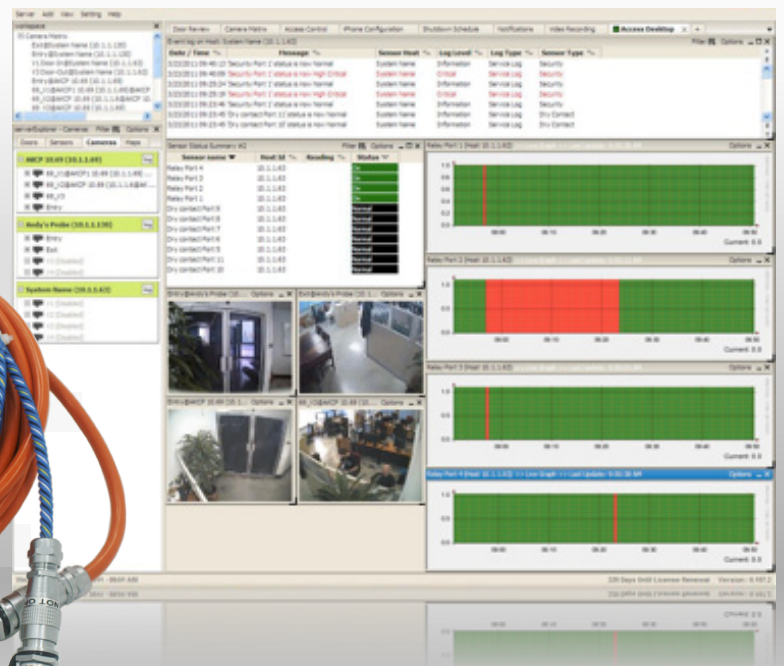


# locateWater Sensor - LWSXX



## locateWater Sensor

The AKCP locateWater Sensor is a rope type water sensor designed for specific location water detection.

The locateWater sensor can be connected to any one of the sensorProbe or securityProbe's RJ-45 Intelligent Sensor ports enabling the unit to detect the specific location of water ingress.

This water sensor is a switch type that will be on or off and will detect the presence of water if a specific location

on the rope becomes wet.

This is ideal when monitoring for water leaks under raised floor, or false ceiling areas.

This sensor 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.

The sensing cable can be pre-ordered from a 10 foot minimum to any custom run length (in multiples of 10 feet) of up to 160 feet. The non-sensing cable comes in a standard 20 foot run length. See the detailed diagram of the sensor assembly on page number 2 showing the cable.

The sensing module is then connected to any of the RJ-45 Intelligent sensor ports on the AKCP base units using standard CAT5/6 LAN cable.

The specific location of water along the rope can be used to trigger alerts like e-mail, SMS, phone calls and SNMP traps. The sensor has its own SNMP OID so that it can be monitored over the network using any Network Management System.

Each locateWater sensor comes complete with a 5 foot sensor cable that connects the main sensing module to the securityProbes RJ-45 sensor ports, or you can use your own CAT5/6 LAN cable. This cable can be extended up to 100 feet or 30 meters.

**Note:** *The locateWater Sensor is only compatible with the securityProbe, securityProbe 5E, securityProbe 5ES, newer sensorProbe2 shipped after October 2009, sensorProbe4, and sensorProbe8, sensorProbe8-X20/X60 units shipped after July 1st 2011.*

## Water

Ideal for use in basements and under false floors and roof spaces, the locateWater sensor can cover a large area. Combined with any of the sensorProbe series or securityProbe series units it will give you advance notice of any water leaks or flooding. The sensor will retain its error condition until it is read via an SNMP get. Therefore if the sensor encounters a critical condition at anytime it will report that condition before it returns to a normal state.

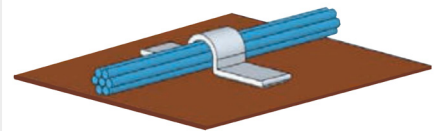
## Acid

In power monitoring situations where backup battery and UPS are used to ensure a constant power supply there is a risk of battery's leaking harmful battery acid. Use this rope sensor underneath backup battery banks to give advanced warning of battery acid leaks.

**Note:** *This product is designed for short term exposure to battery acid only. Tested with 40% concentrate Sulphuric acid (H<sub>2</sub>SO<sub>4</sub>)*

## Mounting the locateWater Sensor

We recommend using any standard plastic U-clip with the adhesive base as shown. 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.



U-Clip with Adhesive Base

## locateWater Sensor's Main Features

- **Powered by the sensorProbe, or securityProbe. No additional power needed. Both units will auto-detect the presence of the locateWater sensor.**
- **Full autosense**
- **Sensor module LED activates when liquid is detected by the sensor.**
- **Sensor reports critical status if cable integrity is broken, cut, or unplugged.**

## Technical Specifications

**Measurement Range :** Wet or Dry (-20 degrees C- +60 degrees C)

**Measurement Accuracy :** able to detect the presence or non-presence of water/battery acid

The locateWater sensor can detect and withstand a 40% concentration of battery acid for short term periods of time without damage to the rope.

**Sensor Type :** patent pending, microprocessor controlled, capacitance measurement technology

**Power Consumption :** Typical 125 mWatt, 25 mA

**Communications cable :** RJ-45 jack to main sensor module using UTP CAT5 cable.

Maximum extension cable run length is 30 meters (100 feet).

Comes fully assembled including the Water/Acid sensing rope, the non-sensing cable that connects the rope to the sensing module and the main sensing module that connects via CAT5 LAN cable to the sensorProbe/securityProbe 5E.

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.

**Sensor OID is .1.3.6.1.4.1.3854.1.2.2.1.18.1.3.0**

## SNMP OID's

SNMP OIDs for the sensorProbe units are as follows:

sensorProbeSwitchWaterRopeLeakLocation .1.3.6.1.4.1.3854.1.2.2.1.18.1.49.X

sensorProbeSwitchWaterRopeLength .1.3.6.1.4.1.3854.1.2.2.1.18.1.50.X

sensorProbeSwitchWaterRopeUnit .1.3.6.1.4.1.3854.1.2.2.1.18.1.51.X

sensorProbeSwitchWaterRopeOhmPerUnit .1.3.6.1.4.1.3854.1.2.2.1.18.1.52.X

sensorProbeSwitchWaterRopeRaw .1.3.6.1.4.1.3854.1.2.2.1.18.1.53.X

Where X is port-1

SNMP OIDs for the securityProbe units are as follows:

sensorWaterRopeDescription .1.3.6.1.4.1.3854.2.3.21.1.2.Y

sensorWaterRopeStatus .1.3.6.1.4.1.3854.2.3.21.1.6.Y

sensorWaterRopeGoOffline .1.3.6.1.4.1.3854.2.3.21.1.8.Y

sensorWaterRopeLeakLocation .1.3.6.1.4.1.3854.2.3.21.1.9.Y

sensorWaterRopeLength .1.3.6.1.4.1.3854.2.3.21.1.10.Y

sensorWaterRopeUnit .1.3.6.1.4.1.3854.2.3.21.1.11.Y

sensorWaterRopeRaw .1.3.6.1.4.1.3854.2.3.21.1.13.Y

where Y is sensor ID, the dynamically number is generated when the sensor plugged in.