

WE SENSE DISASTER...  
AND NOW YOU ARE IN CONTROL...



## Water Sensors

The water detector is an advanced microprocessor based design capable of detecting distilled water. This water detector is designed and manufactured by AKCP.

Previously we used a water detector that was purchased from a security distributor. During a rollout to a large nationwide customer we found that they did not always operate correctly. In Seattle Washington the units failed to alarm even when immersed in water.

It turns out that the typical water detectors use a technology where they measure the Resistance of the water. This resistance depends upon the presence of electrolytes in the water. The water in Seattle was too clean, therefore the resistance was too high and the typical water detector would not work.

Our water sensor is an exclusive design capable of detecting the presence of even distilled water. The water detector contains microprocessor controlled capacitance measuring circuitry. This is far more precise than standard commercially available water detectors which measure the resistance of water. The resistance of water can vary depending upon the impurities in the water. Normal resistance type monitors are unable to detect the presence of distilled water due to its high resistance.

The entire circuit is encased in epoxy allowing the water detector to function while submerged in water. The SP2 will retain any error condition until it is read via an snmp get. Therefore if a water detector encounters a critical condition at any time it will report that condition before it returns to a normal state. The water sensor detects water leaks and flooding with a WET/DRY indication in software. SNMP polling via snmp get available. Web browser interface available. When an alarm condition is activated the description and location of the fault can be sent via email, page.

## Specifications

- Measurement range - Wet or Dry ( -20°C +60°C)
- Measurement accuracy - able to measure distilled water
- Sensor type - patent pending, microprocessor controlled, capacitance measurement technology
- Communications cable - RJ45 jack to sensor using UTP Cat 5 wire, Maximum extension cable length 305m (1000 ft.) with approved low capacitance shielded cable or UTP.
- Measurement rate - multiple readings every second

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## Features

- Power source: powered by the sensorProbe. No additional power needed.
- sensorProbe autodetects the presence of the water sensor
- Up to 2 water detectors per sensorProbe
- Full autosense including disconnect alarm