

spotWater Detector - wsxx



spotWater Detector

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

Previously we used a spotWater 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 spotWater 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 spotWater detector would not work.

Our spotWater Detector is an exclusive design capable of detecting the presence of

even distilled water. The spotWater detector contains microprocessor controlled capacitance measuring circuitry. This is far more precise than standard commercially available spotWater 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 spotWater 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 spotWater detector encounters a critical condition at any time it will report that condition before it returns to a normal state. The spotWater Detector detects water leaks and flooding with a WET/DRY indication in software. SNMP polling via snmp get is available.

Web browser interface available. When an alarm condition is activated the description and location of the fault can be sent via an email or SNMP trap on the sensorProbe.

spotWater Detector's Main Features

- **Powered by the sensorProbe. No additional power needed.**
- **Power Consumption: Typical 61.85 mWatt, 12.37mA**
- **sensorProbe auto detects the presence of the water sensor**
- **Up to 2 spotWater detectors per sensorProbe**
- **Full autosense including disconnect alarm**

Technical 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 150m (500 ft.) with approved low capacitance shielded cable or UTP.

Measurement Rate : multiple readings every second