RMS-I-DE-06 Rope Water Sensor

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1. 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 Rope Water sensor is capable of detecting the presence of or non-presence of water. 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/absence of water 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.

(Introduction continued)

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

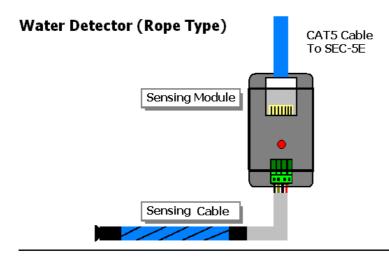
Rope Water sensor OID:

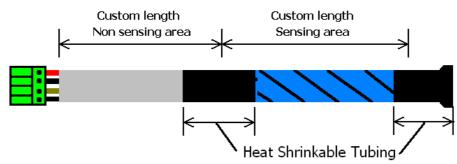
For a switch type sensor on RJ45#1 the OID for the status is .1.3.6.1.4.1.3854.1.2.2.1.18.1.3.0

1.1. Features:

- On/Off alarm signal of Water detected
- o Accurate, cost effective Water detecting system
- o Rope portion of the sensor is submersible
- Sensor type open/closed contact switch
- o Power source: powered by the unit. No additional power needed.
- o Power Consumption: Typical 125 mWatt, 25 mA

- o The unit auto detects the presence of the Rope Water sensor
- o Up to 8 Rope Water sensors per RAMOS Optima unit.
- o Hundreds of Rope Water sensors per RAMOS Ultra with Expanders
- o Full Autosense including disconnect alarm if cut, broken, or disconnected
- Sensing rope cable can be pre-ordered from a 3m minimum to any custom run length of up to 50 m.
- o Non-sensing cable comes in a standard 6m run length.
- o Can be connected to any of the RAMOS Optima's or RAMOS Ultra's 8 RJ-45 Intelligent sensor ports or any of the RAMOS Ultra EX-I8's expansion module ports.
- Can be extended up to 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.





Rope Water sensor product assembly diagram

2. Configuring the Rope Water 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.

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 Rope Water sensor are lost, the status of the Rope Water sensor is changed to Sensor Error.

2.1. Configuring the Rope Water sensor on a RAMOS Optima unit

The Rope Water sensor shows the "Normal" status in Summery page after connecting the sensor.



Use the Sensors page and the Water Detector sensor settings in the RAMOS Optima's web interface for configuring the Rope Water sensors settings.



The Rope Water sensor shows the "Critical" status in the Summery page after detecting water.



2.2. Configuring the Rope Water sensor on a RAMOS Ultra unit

The Rope Water sensor shows the "Normal" status in Summery page after connecting the sensor and when water is detected is will show "Critical" in this page and Syslog. Detailed information's about status will be written in syslog memory and shown on syslog page with the timestamp.



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

