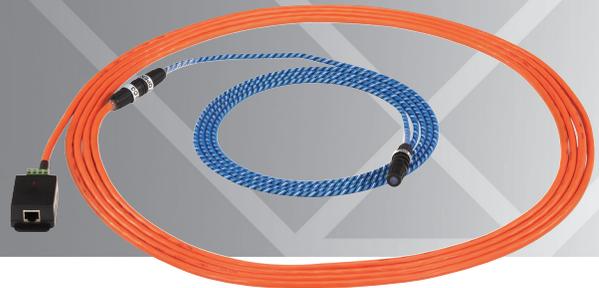# BLACK BOX®
NETWORK SERVICES

AlertWerks™ Rope Water Sensors

Use on the floor to detect the presence of water or liquid. The sensor is accurate enough to measure distilled water.

Includes a 20-foot (6.0-m) cable; 10-foot (3.0-m) extension cable is also available.

Specifications

Communications Cable — RJ-45 jack to main sensor module using UTP CAT5 cable

Maximum Extension Cable Run Length — 100 ft. (30 m)

Measurement Range — Wet or dry: -4 to 140° F (-20 to +60° C)

Measurement Accuracy — Detects the presence or absence of water/battery acid; the sensor can detect and withstand a 40% concentration of battery acid for short periods of time without damage to the rope

Power Source — Powered by the AlertWerks Hub or base unit; no additional power is required

Power Consumption — Typical 125 mWatt, 25 mA

Sensor OID — .1.3.6.1.4.1.3854.1.2.2.1.18.1.3.0

Sensor Type — Patent-pending, microprocessor controlled, capacitance measurement technology

Overview

The AlertWerks™ Rope Water Sensor detects and monitors water and battery acid. Connect it to an AlertWerks hub's RJ-45
intelligent sensor port. The Rope Water Sensor is a switch-type sensor that will be on or off to detect the presence of water or battery acid if any portion of the rope gets wet.

The sensor is 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 to the hub via CAT5 LAN cable. The autosensing rope cable on the EMERW-020 is 20-feet (6.0-m) long. It connects the main sensing module to the hub's RJ-45 sensor ports. You can add distance using the extension cable (EMERWE-010). The cable can be extended up to 100 feet (30 m).

The sensing module connects to any of the RJ-45 intelligent sensor ports on the base units using standard CAT5/6 LAN cable.

When the rope is wet, the sensor triggers alerts such as e-mail, SMS, phone calls, and SMS traps. The sensor has its own SNMP OID so you can monitor it over your network using any Network Management System.

Mounting the AlertWerks Rope Water Sensor

Use any standard plastic U-clip with an adhesive base as shown in Figures 1 and 2 below. You can find these types of clips at your local hardware store.

When installing or handling your new rope sensor, be sure to handle the rope portion of the sensor with care. Do not twist, excessively bend or put stress on the rope, because the internal sensing wires are very delicate and can be damaged easily.
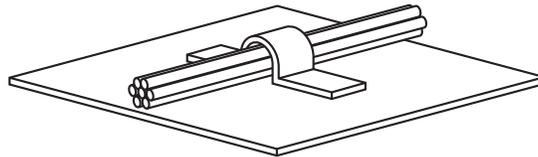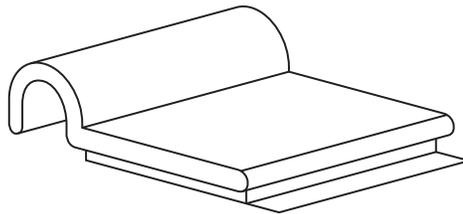

Figure 1. U-clip with adhesive base.

Figure 2. Half U-clip with adhesive base.

BLACK BOX®
NETWORK SERVICES