

## Installation

### 2.4.6 Battery Temperature Sensor Installation and Wiring

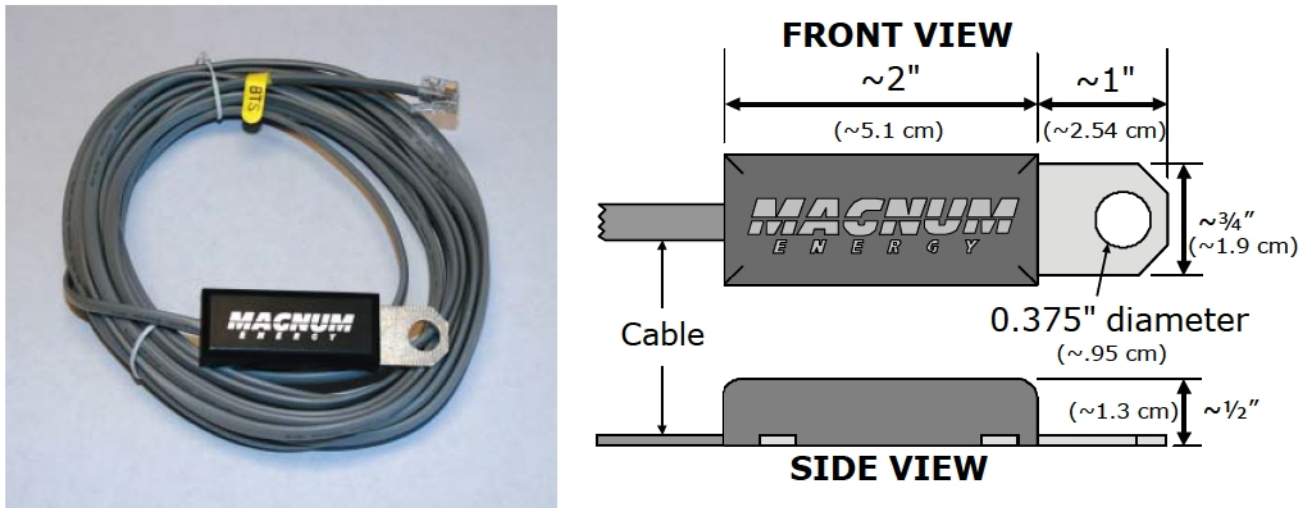
The Battery Temperature Sensor (shown in Figure 2-7) provides the inverter with precise battery temperature information to automatically adjust the ABSORB and FLOAT charge voltage set-points. This allows the batteries to be correctly charged under extreme temperature changes.

If the temperature sensor is NOT installed and the batteries are subjected to large temperature changes, the battery life may be shortened.

The BTS cable may be extended—using a RJ11 connector (female to female) and a standard phone cable with RJ11 connectors—to a maximum length of 40 feet (12 m). However, your inverter to battery cable length should not exceed the recommended distance provided in Table 2-2.

#### To install the BTS:

1. Attach the ring terminal end of the Battery Temperature Sensor to the negative battery terminal; see Figure 2-5 for proper connection to the battery terminal.
2. Route the sensor's cable to the inverter following existing wire runs.
3. Connect the RJ11 connector end of the BTS cable to the yellow-labeled BTS port on the inverter (Item 6, Figure 1-1).



**Figure 2-7, Battery Temperature Sensor**