



BTRM Frequently Asked Questions

Part Number:

Product Release Date:

Software version:

Question: If Technician removes battery while testing, what happens?

Ans: Battery removal from the BTRM while under test will trigger a “Low Battery in Test” condition. When detected the BTRM instantly returns all connected DC sources to power the load such that connected loads are not affected.

The recommended method for servicing a Battery connected to the BTRM is to enter "BTRM Service Mode" by pressing Button PB2 for 6 seconds (available in firmware versions V131E and up). This ends any test in progress and blocks any untended alarms for 10 minutes. Entering Service Mode can also be used to wake up the system from low battery shutdown due to extended loss of power. After 10 minutes or again holding PB2 for 6 seconds, normal operation will resume.

Question: If AC power fails and the battery is already low will the BTRM do a scheduled test?

Ans: The BTRM will not run a manual or scheduled test if the AC power has failed or the battery is less than fully charged

Question: Can you setup a test for only 15 minutes? Does it have to be a full 2 hour test?

Ans: Obviously it would be convenient to get accurate results from a short 15 minute test; however there are several complications with this approach. When a battery is initially placed in Run Test and the load applied, the battery voltage will fall steeply, and then rise back for up to 30 minutes, in some cases exceeding the initial battery voltage before resuming a normal discharge slope. Since the battery voltage discharge profile under load is related to expected run time, even batteries in poor health during this period could be calculated to have greater than 100% capacity. Running test for 1 to 2 hrs, depending on the load demand, allows the battery voltage to settle out to the expected discharge curve and averages out the effect of variable loads, resulting in a more accurate result. As such the BTRM Run Test expects to evaluate the battery in the 1 to 2 hrs range, using 20% or less of its reserve capacity to a maximum of 4 hours.

Question: Can a technician manually force a battery test while on-site?

Ans: There are two ways to force a battery test while on site. The first method is to access the BTRM Web interface with a laptop. The Manual Test page gives the option of starting a test immediately or in a specified number of hours. Ideally if the battery has just been replaced, to achieve a good result, the battery should be connected for 4 to 8 hours to the system to ensure it is both fully charged and had time to rest after charging

should the battery temperature become elevated before starting a test. The Second way can be used when installing a new battery and resetting the battery data, this will initiate a test to start in the next 10hrs.

Question: Does the BTRM perform any kind of pre-test to make sure the battery can support the load before it takes AC power offline?

Ans: Yes, the BTRM does do an initial evaluation of the battery before entering a scheduled test.

Question: Is there a script that can be run by the user if they have multiple BTRM's deployed to speed up the setup process.

Ans: One of the key features of SNMP protocol is the ability to run scripts to configure network connected devices that support SNMP. The BTRM supports this protocol and firmware versions V130 and down, a number of features can be configured by running SNMP scripts. However, to support full scripting configuration, a few features, including the IP addressing, needs to be added to this collection in a future firmware update. Release expected late Q3/2013.