

# Battery Test Remote Monitor

Are your remote-site UPS batteries healthy? Many remote sites that have wired or wireless equipment for relaying critical data are designed with battery backup systems. However, batteries have an operational lifespan that can be reduced by environmental factors. Your critical information that you need Ventev's Battery Test Remote Monitor (BTRM) is a DIN mounted device that installs in your remote cabinet that performs periodic battery health tests and sends exception reports via SNMP, text or email using Ethernet or DNP3 communication protocols.

## Device Highlights

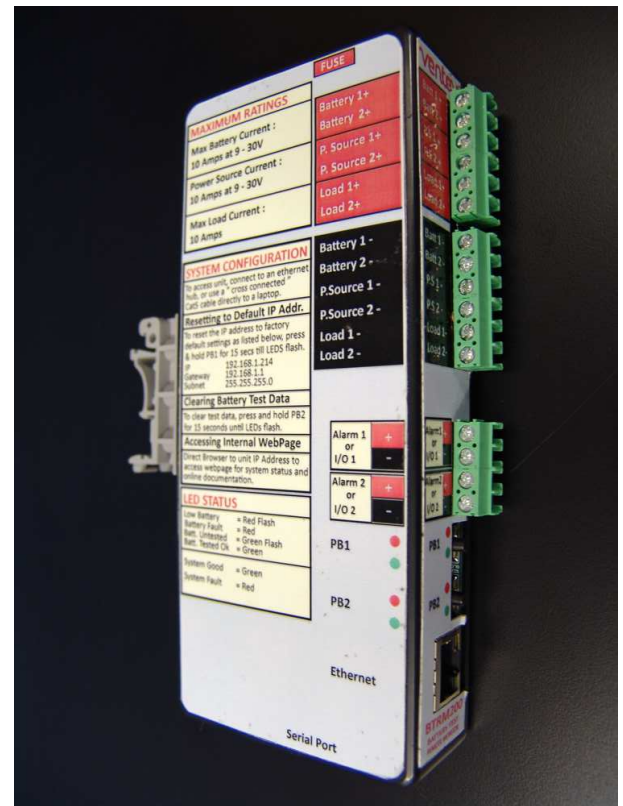
- Most reliable testing using the system's own load to evaluate battery health in real-time
- Saves costs and expenses of replacing batteries that are still good with proactive email, text and SNMP alerts notifying you before your battery backup system fails
- The latest in Ethernet communications supporting multiple communications protocols including SNMP and DNP3
- Saves time and costs by enabling battery replacement when already planned to be in the area- no special trips/truck rolls.
- Peace of mind that if widespread power fails, all systems will operate for the designed amount of back-up time.

## Features & Benefits

- Continuously assess the actual Battery Voltage independent of the charger voltage (float voltage) which is a more reliable method for battery testing.
- Each device is IP addressable and are remotely configurable with a web-based GUI
- User selectable Low Voltage Disconnect On/Off
- System Alarms
  - Batteries that fail to meet Minimum Capacity requirements or have Low Battery voltage will result in the BTRM200 issuing the appropriate message to the Network Monitoring System and/or activate one of the unit's alarm contacts.
- Two dry contacts for basic RTU functionality. Example configurations include:
  - Door alarm
  - AC power off
  - DC power on

## Designed for Remote UPS & Solar systems

- Oil & Gas or Utility SCADA systems such as
- Wireless remote monitoring of well heads
  - Smart Grid
  - AMI/AMR
  - Security & Surveillance



For customized solutions, contact a TESCO sales rep.

### Overview

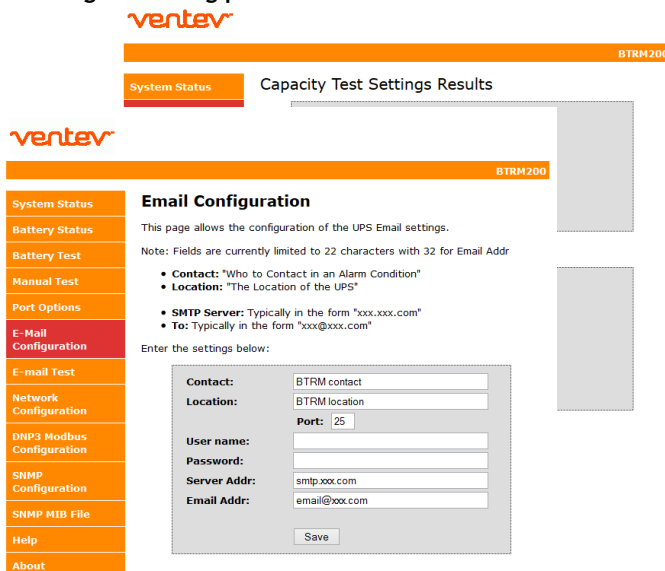
Batteries age and their capacity slowly deteriorates until they need replacement. Also, batteries can suddenly develop an internal fault that again limits their capacity. In an AC Line Down situation, where batteries are used in critical back-up applications, these conditions will result in premature, or in some cases immediate, system shutdown. Although a battery's state of charge can be inferred by monitoring the battery terminal voltage while in standby mode, this voltage will not give an indication of actual capacity. Furthermore, a battery that is marginal may not be detected until it is called upon to perform, at which point it is too late to prevent a system failure. For a battery connected to a charger that maintains a float voltage, neither condition can be checked. In these cases, the BTRM200 is designed to evaluate battery capacity transparently to system operation and provide network based notification should a battery fail or its capacity drop below a specified level. This also has the advantage of allowing batteries that exceed their nominal lifetime to remain in service, provided they meet capacity requirements.

### Technical Specifications

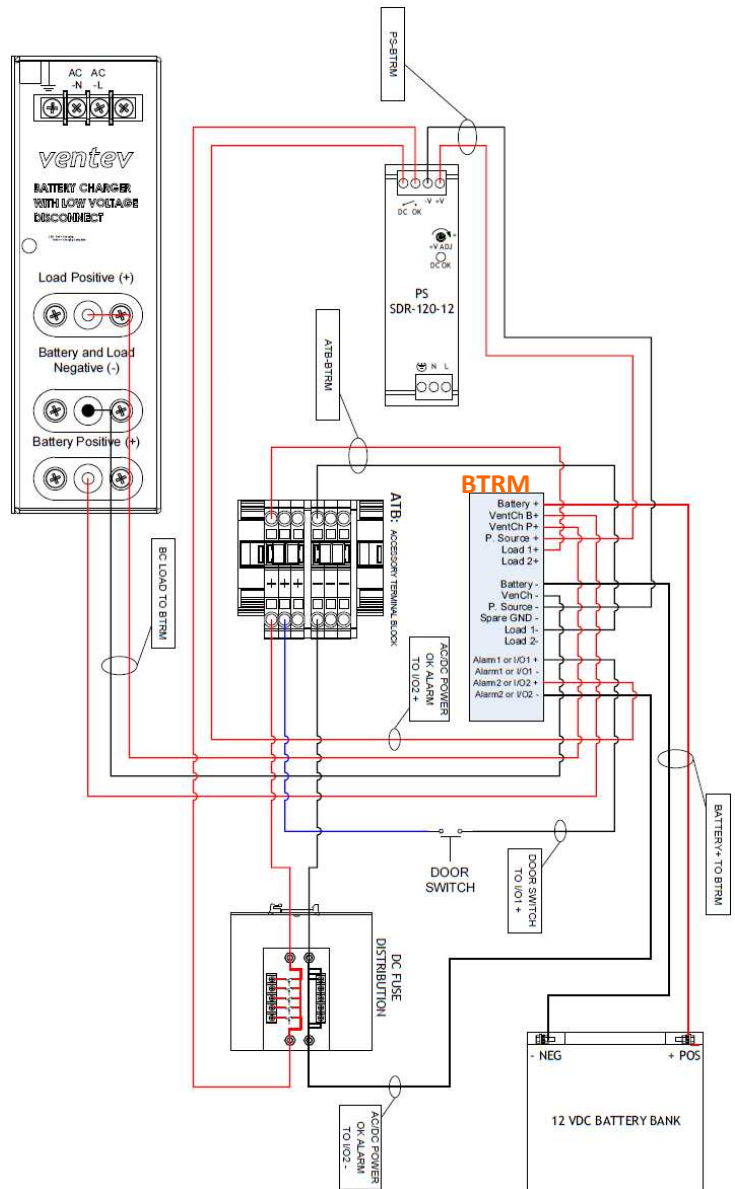
Operating Voltage	9 to 32 VDC
Battery Max Current	10 A Continuous
Charger Max Current	10 A Continuous
Load 1 & 2 Combined Max Current	10 A Continuous
Battery and Charger Voltage Measurement	0 to 32V ± 1%
Current Measurement	0 to 10 Amps ± 1%
Environmental Temperature	-20° C to +60° C
Humidity	5 % to 95% Non Condensing
Mounting	Din rail mounting
Mechanical	Size 6.25" H X 2.8" D X 1.2" W
Weight	5.0 oz (142 g)
Warranty	1 year

### Web-based GUI

- Each device is IP addressable
- Name each device for location or coordinates
- Configure testing parameters



### Reference Wiring Diagram



For customized solutions, contact a TESCO sales rep.