



- Do you utilize batteries as an integral part of your Emergency Power Plan?
- Have you checked your battery system lately?
- Will your backup batteries provide the power you need, when you need it?
- **REMEMBER:** The time to answer these questions is **BEFORE** that critical moment when the lights start to blink!

A battery system's ability to take or maintain a charge, and/or to provide optimal runtime during a discharge, depends on many factors, including: *System Temperature, System and String Current* and *Total Energy Discharged*.

ENERSAFE's **LifeLink®** remote battery monitoring technology continuously measures these factors, and gives you an up-to-the-minute picture of your battery backup system's ability to perform when you need it most. And all ENERSAFE **LifeLink®** cycle count monitors can be accessed remotely, using TCP/IP or dial-up modem.

The **LifeLink®** Cycle Count remote monitor is designed to monitor up to ten strings of any kind of batteries. All **LifeLink®** Cycle Count remote monitors are able to verify *System Status*, collect and log *System History* and measure and record *Individual String* level parameters. Float Current can also be monitored with optional equipment.

World Class Remote Battery Monitoring Systems



Applications

- Telecom
- Emergency 911
- Cellular Towers
- Electric Utilities
- Emergency Lighting
- Railway Systems
- UPS Systems

MEASURES & RECORDS...

- System Voltage
- System Current
- Individual String Current
- Float Current
- Total Number of Discharges
- Total Energy Removed
- Ambient Temperature



Benefits

- Optimizes Capital Budget
- Cost-Effective for Large Deployments
- Eliminates Needless Truck Rolls
- Remotely Accessible
- Verifies System Status
- Collects & Logs System History
- EASY TO INSTALL

**Make Sure
You Have
The Power
You Need,
When You
Need It!**

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LIFELINK® SPECIFICATIONS

SYSTEM LEVEL MEASUREMENTS

- DC System Voltage:**
Range: 18V DC – 600V DC
Accuracy (System): +/- 0.05%
Full range: +/-0.1%
- DC System Input Protection:**
2 mOhm min.
0.5W Flame-Proof Series Resistor
Rated to 1,000V
- Ambient Temperature:**
Range (ambient): -30°C to +75°C (-22°F to +167°F)
Accuracy: +/-0.5 Degree C (@ ambient temperature probe)
- Charge/Discharge:**
Current Range: 0 to 5,000 Amps
Accuracy: +/-0.5%, plus clamp accuracy

SYSTEM FEATURES

- Discharge Detection:**
Via system negative current
- Discharge Categories:**
Short Discharges - Customer Defined Duration
(in 1.0 minute increments)
Long Discharges - Duration exceeding Short Discharges
- Discharge Record:**
Separately records long and short discharges
Cumulative energy from all discharges (in kWh)
Discharge Event Log (up to 4000 entries) consisting of:
- Discharge Number
- Discharge Date/Time Stamp
- Maximum Discharge Current
- Discharge Duration

Short discharge definition:
Customer defined interval (in 1 minute increments)

Total discharge energy:
Cumulative Energy from all discharges (KWH)

- Local Alarm Indicators:**
- Major Alarm
 - Minor Alarm
 - High Temperature
 - Equipment Failure

Alarm Priorities:
Major; Minor (Customer Defined)

- Other System Alarms:**
- Float Current Alarm
 - Equipment Failure

Custom Alarm Inputs:
Up to 6 discrete inputs with customer defined priority

ELECTRICAL PARAMETERS

Server supply power requirements:
15V AC - 24V AC (AC/AC adapter provided)
15V DC - 58V DC (customer source)

ENVIRONMENTAL SPECIFICATIONS

- Operating temperature:**
-30°C to +45°C (-22°F to +113°F)
- Storage temperature:**
Server: -40°C to +75°C (-40°F to +167°F)
Probes: -40°C to +85°C (-40°F to +185°F)
- Humidity (probes):**
Relative Humidity 5% - 100%
- Humidity (server):**
Relative Humidity 5% - 90% (no condensation)

REGULATORY AND TESTING STATUS

- Enersafe products are designed to meet the following:**
- UL1778
 - UL1950
 - UL94V0
 - CSA 22.2
 - Telecordia GR-1515-CORE
 - NEBS, Level 3 GR-1089, CORE (FCC level)
 - CE for Safety and Emission Directives
- Regulatory Approval:**
EN61326 Class A, FCC Part15 Class A, EN61000

FOR ADDITIONAL INFORMATION

Detailed documentation is available at the Enersafe web site:
www.enersafe.com

- Documentation available on the Enersafe web site includes:**
- LifeLink® System Manual
 - LifeLink® Terminal Software Manual and Start-Up Guide
 - LifeLink® QuickStart Guide
 - LifeLink® System Frequently Asked Questions (FAQs)

- White Papers available on the Enersafe web site include:**
- VRLA Battery Reliability through Effective Monitoring
 - Faulty and Aged Battery Detection Criteria
 - Emerging Issues and Solutions in Battery Monitoring System Design and Application

- Additional resources available on the web site:**
- Site Survey/Quote Request
 - Distribution Channels
 - Customer Support
 - Sales Channel Secure Area

Specifications are subject to change without notice.