

# Alber® UXIM - Battery Monitor

## Universal Xplorer Industrial Monitor

**A real time battery monitor designed for Utility Bulk Power Systems and NERC compliance, to save you time and money!**

- Automate the IEEE Recommended Practices for Battery Maintenance and Testing
- Maintain complete and accurate maintenance records
- Multiple remote communications and alarm options



### Real Time Data Capture

- Overall string voltage
- Individual cell voltages
- Cell/block temperatures
- Ambient temperature
- Discharge current
- Float current
- AC ripple current
- Data storage
- Vital battery parameters are continuously compared to user programmable alarm thresholds
- View key battery parameters during a scheduled capacity test or during any power outage

### Proactive Continuity and Integrity Testing

- User programmable DC resistance tests
- Internal cell resistance test (Battery State of Health)
- Intercell and Intertier connection resistance test

### Stand Alone System

- Easily integrates to building management systems
- Embedded Web server with priority email scheduler
- 24x7 data collection, analysis, and remote alarm notification



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### System specifications

#### Agency Approvals

- UL61010-3
- EN61326-1
- FCC Part 15, Class A

#### Operating Environment

- Temperature range: 0°C to 40°C (32°F to 104°F)
- Humidity range: 0% to 80% RH (non-condensing) at 5°C to 31°C, 0% to 50% RH (non-condensing) at 31°C to 40°C
- Indoor use only
- Installation Category 1
- Pollution Degree 2
- Altitude: 0 to 2,000 meters above sea level

#### Alarms

- 2 - Form C relay contacts, 2A at 30VDC
- 3 Digital Inputs

#### Input Power

- DC Powered - 95 to 145VDC, 7.5W max.

#### Communications

- RS-485/1 - MODBUS
- RS-485/2 - Proprietary for Temperature Module
- Ethernet - TCP/IP MODBUS, SNMP, SMTP
- USB
- Fiber optic for BDSU integration

#### Packaging

- 1U chassis
- Dimensions: 15.75"W x 1.74"H x 12.00"D
- Weight: 2.9 lbs.
- Wall or 19" Rack Mount



### System Measurements

Parameter	Tolerance	Number of Inputs
String voltage	0 to 150 volts: 0.2% of reading at ±0.1 volts	calculated
Discharge current	0 to 4000ADC, ±0.25% of full scale	calculated
Ripple current	0 to 250A RMS, ±5% of full scale	calculated
Float current	0 to 5000mADC, ±1% of full scale	calculated
Ambient temperature	0°C to 80°C ±0.1°C (32°F to 176°F)	2

### Cell/Block Level Measurements

Parameter	Tolerance
Cell Voltage	2V range    0 to 4V    0.1% ±2mV
Internal Cell Resistance	0 to 32,000µΩ, 5% of reading ±2µΩ
Intercell Resistance	0 to 5,000 µΩ, 5% of reading ±5µΩ
Intertier Resistance	0 to 5,000 µΩ, 5% of reading ±5µΩ
Cell/Block Temperature	0°C to 80°C ±0.1°C (32°F to 176°F)

Specifications subject to change without notice.

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