

Albér™ UXIME - Battery Monitor

Universal Xplorer Industrial Monitor



Benefits

- Automate the IEEE Recommended Practices for Battery Maintenance and Testing
- Maintain complete and accurate maintenance records
- Multiple remote communications and alarm options
- Input power connectivity to the optional Albér™ Electrolyte Level Sensor (ELS2)
- Monitors 2V VLA Wet Cells and 12V, 6V VLRA Modules
- On board memory for discharge, cell voltage, internal resistance and alarm history
- User programmable alarm thresholds
- View battery parameters during a scheduled capacity test or during a discharge



The Albér™ Universal Xplorer Industrial Monitor (UXIME) is a stationary battery monitor designed for use in Industrial or Utility applications. Standard configurations specifically designed for Utility Substations' 120V and 48V applications, make it ideal for NERC compliance. Each monitor is a stand-alone system.

Real Time Data Capture

- Overall string voltage
- Individual cell voltages
- Cell/block temperatures (Optional ELS2)
- Ambient temperature
- Discharge current
- Float current
- AC ripple current
- Data storage
- Electrolyte Level (Optional)
- ± Charge cable resistance
- Ground fault currents

Proactive Continuity and Integrity Testing

- User programmable DC resistance tests
- Internal cell resistance test (Battery State of Health)
- Intercell, Intertier and Charger Cable 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
- Multiple system management with the optional Albér™ Battery Xplorer Enterprise (BXE) software.

Battery Configurations Supported

Supports 8 different configuration, including up to 62 cells and 12V and 6V VRLA Modules.

Technology	Nominal Volts	Battery/String Configuration (Number Of Strings) X (Number Of Data Points) X (Nominal Voltage Of Data Point)
2V cells, VLA/VRLA	48V	1X24X2V
2V cells, VLA/VRLA	116V	1X58X2V
2V cells, VLA/VRLA	118V	1X59X2V
2V cells, VLA/VRLA	120V	1X60X2V
2V cells, VLA/VRLA	122V	1X61X2V
2V cells, VLA/VRLA	124V	1X62X2V
12V modules, VRLA	120V	1X10X12V
6V module, VLA or VRLA	120V	1X20X6V

System specifications

Safety Approvals

- UL61010-1
- EN61010-1
- IEC61010-1

EMC Approvals

- EN61326-1
- FCC part 15 class A

Input Power

- DC Power, 45VDC to 150VDC, 19W max.

ELS2 Output Power

- DC Power, 12VDC, 375mA.

Operating Environment

- Temperature Range: 0°C to 55°C (32°F to 131°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
- Measurement Category O (500V Transient Rating)
- Pollution Degree 2
- Altitude: 0 to 2000 meters above sea level

Alarms

- 2 - Form C relay contact, 2A at 30Vdc
- Digital Inputs (wet or dry contacts)

Communications

- RS485/1 - MODBUS
- RS-485/2 - Proprietary for optional accessories
- Ethernet -TCP/IP MODBUS, SNMP, and SMTP
- USB
- Fiber optic for BDSU integration

Packaging

- 1U chassis
- 17.0"W x 1.75"H x 12.00"D
- 4.0 lbs.
- Wall or 19" Rack Mount

System Measurements

Parameter	Tolerance	Number of Inputs
String voltage	17Vdc to 150 Vdc ±.5%	Measured
String current	0 to 2000 ADC ±1% of full scale	Calculated
Ripple current	0 to 250 Amperes RMS, ±5% of full scale	Calculated
Float current	0 to 5000mADC, ±50mA	Calculated
Ambient temperature	0°C to 80°C±0.1°C (32°F to 176°F)	1

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