Arga Controls

PORTABLE BATTERY MONITOR
VOLTAGE/GROUND FAULT/ALARM OUTPUTS

Battery Voltage and AC Charger Power Monitoring

- Adjustable alarm threshhold setpoints
- High/Low battery voltage alarms
- Open cell alarm
- AC charger alarms: loss or malfunction
- High accuracy ± 0.2 VDC

Ground Fault Detection/Location

- Detects under/over voltage and +/- ground faults
- Local +/- ground fault sonic alarm
- Handheld detector for ground fault location

Serial Communications for Remote Monitoring and Reporting

- Remote monitoring capability
- Serial remote ground fault alarm reporting
- Optional digital/analog output for SCADA
- DNP3.0 or Modbus protocol
- Historical data for proactive maintenance

Portable and Self-Contained

- Lightweight rugged case for field use
- Powered off the DC battery system
- Real-time field trouble shooting

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Arga Controls
A Unit of Electro Switch Corp

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APPLICATIONS

Battery Monitoring:

A recorded history of system voltage changes provides data for trend analysis and predictive maintenance.

- With remote monitoring, digital or analog outputs create historical files.
- Trend analysis allows accurate predictions of future failures.

Ground Fault Detection and Location:

Ground faults seriously jeopardize the operation of facilities that rely on battery systems for power generation.

Through real-time sensing, the Portable Battery Monitor detects ground fault conditions and generates alarms to notify facility operations/maintenance. The Monitor's Pulser feature and handheld Ground Fault Detector can then be used to locate the fault for corrective action.

OTHER ARGA CONTROL PRODUCTS

Single-Function Digital Meters

Voltage, Current, and Frequency Transducers

Portable Battery Monitor: SPECIFICATIONS

Battery Input:	50 to 180 VDC, 3VA (for 125 V battery)
Ground Resistors:	30K ± 1% from each bus to ground (for 125 V battery)
Voltage Indication:	0 to ± 199.9 VDC in 0.6" bright red LED digits and decimal point. Accuracy is ± 0.2 VDC
Display Ranges:	A. + Bus to Ground (+ to GND) C. Ground Fault Voltage (Fault) B. – Bus to Ground (– to GND) D. Battery Voltage (BAT)
Scanning:	Scan button used to select desired display ranges above.
Limit Setting:	Display of limit setting by pushing "Limit" button on front panel when range light is on.
Alarms: (Not Scanned)	A. "+ Fault Alarm" LED lights. Set range is 13.0 to 100.0 V. B. "– Fault Alarm" LED lights. Set range is -13.0 to -100.0 V. C. "Hi Battery Alarm" LED lights. Set range is 125.0 to 150.0 V (preset at 142.0 VDC). D. "Lo Battery Alarm" LED lights. Set range is 100.0 to 125.0 V (preset at 105.0 VDC). E. AC Ripple: Alarms when AC input voltage component exceeds set value (0.02 - 2V) for more than 1 second. Indicates open cell or defective AC charger. F. AC Power Loss: Alarms when AC input to the charger falls below 70 V (normal input is 110 - 240 VAC).
Time Delay:	Can be set from 5 to 60 seconds
Reset:	Panel push button or remote control closure will reset an alarm provided the cause is removed.
Output Contact: (Rating)	2A at 120 VAC or 28 VDC, 25 mA at 150 VDC
Output Options:	Standard Digital: RS232/485 with DNP3.0; or Modbus
Voltages:	125 VDC: P/N 50-498-J3.0-BB-125-A *(Standard)* 24 VDC: P/N 50-498-J3.0-BB-24-A 48 VDC: P/N 50-498-J3.0-BB-48-A 250 VDC: P/N 50-498-J3.0-BB-250-A

Ground Fault Detector: SPECIFICATIONS

Operation:	Handheld unit with ON/OFF and volume adjust switch
Indication:	LED and audible indicators for detected ground faults

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