

### APPLICATIONS

A single DC ground is not particularly destructive, however, a second ground can shut down the system. This seriously jeopardizes the integrity of facilities that rely on battery systems to power generation/distribution and multilevel communications. The Arga Portable Battery Monitor system can't stop grounds from happening, but it can totally eliminate any system threat from these faults by sensing and locating the fault, thus allowing immediate correction.

Knowing the history of system voltage changes is also an excellent tool for easier maintenance. The accuracy of the digital or analog output for trend information provided by the Arga Monitor allows a traceable history file on all battery system activity. When used for trend analysis, accurate

predictions of failures is implemented. When used in the latching mode, faults in the system are held in memory. *For permanent installations, ask to see our 25 series Battery Monitor Product Bulletin.*

### Portable Battery Monitor: Part No. 50-469-BB SPECIFICATIONS

- Battery Input:** 90 to 180 VDC, 3VA - For 125 V Battery\*
- Ground Resistors:** 30K  $\pm$ 1% from each bus to ground
- Voltage Indication:** 0 to  $\pm$ 199.9 VDC in 0.6" bright red LED digit and decimal point. Accuracy is  $\pm$ 0.2 VDC
- Ranges:**
  - + Bus to Ground (+ to GND)
  - Bus to Ground (- to GND)
  - Ground Fault Voltage (Fault)
  - Battery Voltage (BAT)
- Scanning:** Automatically scans each range. Each reading is 3 seconds. Scanning stops on indicated value when scan/manual is pushed. Scan resumes on next reading when pushed again. LED lights indicate range being shown. Scanning stops and displays alarm values.
- Alarms: (Not Scanned)**
  - "+ Fault" relay energizes and latches when the + fault voltage exceeds the + set value for the time setting. The "alarm" LED lights. Set range is 13.0 to 100.0V.
  - "- Fault" relay energizes and latches when the - fault voltage exceeds the - set value for the time setting. The "alarm" LED lights. Set range is -13.0 to -100.0V.
  - "Hi Battery" relay energizes and latches when the battery voltage exceeds the "Hi" set value for the time setting. The "alarm" LED lights. Set range is 125.0 to 150.0V.
  - "Lo Battery" relay energizes and latches when the battery voltage is below the "Lo" set value for the time setting. The "alarm" LED lights. Set range is 100.0 to 125.0V.
- Time Delay:** Can be set from 5 to 60 seconds.
- Reset:** Panel push button or remote contact closure will reset an alarm provided the cause is removed.

### Represented/Distributed By:



- Contact Rating:** 2A at 120 VAC or 28 VDC.
- Limit Setting:** Display of limit setting by pushing the "limit" on front panel when range light is on. Limits and time delay are set by removing the front bezel (4 screws). This can safely be done with power on.
- Output Options:**
  - 0 to 1mA DC (isolated) into 0 to 10K load for 90 to 180 VDC input. Accuracy is  $\pm$ 0.1% of FS. P/N is 50-469-101-BB.
  - 4 to 20 mA DC (isolated) into 0 to 500 OHM load for 90 to 180 VDC input. Accuracy is  $\pm$ 0.1% of FS. P/N is 50-469-1420-BB.
  - Digital: RS232/485 with DWP3.0 or Modbus. P/N is 50-469-J3.0-BB.

\*Additional Voltages P/N: 50-471-BB = 48 V Battery P/N: 50-472-BB = 250 V Battery.  
Other voltages available - consult factory.

### Fault Indicator SPECIFICATIONS

- Operation:** Hand activated on-off button/switch.  
**Features:** Automatic Selection of grounded line. Does not interfere with sensitive electronic equipment, radio, etc.  
**Receiver:** Does not contact circuitry LED & sound indicators  
**Sensitivity:** Up to 100K $\Omega$  round resistance