

# Portable Battery Monitor / Ground Fault Locator

Voltage/Ground Meter/Alarm Relays



50-469-BB

## Specifications

### Battery Input

90 to 180 VDC, 3VA - For 125V 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 (+GND)
- -Bus to Ground (- to GND)
- Ground Fault Voltage (Fault)
- Battery Voltage (BAT)

### Scanning

Each range is automatically scanned and read every three seconds.

### Alarms

- The "+/- 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" and "Low Battery" relays energize and latch when the battery voltage exceeds the "Hi" or "Low" set value for the time setting. ("Hi" set range is 125.0 to 150.0V, and the "Low" 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

### Contact Rating

2A at 120 VAC or 28 VDC

### Limit Setting

Limits and time delay are set by removing the front bezel (4 screws). This can safely be done with power on.

## Ordering Information

Part No.	Description
50-469-BB	125Vdc portable battery monitor
Additional Voltages	
50-471-BB	48Vdc portable battery monitor
50-472-BB	250Vdc portable battery monitor

## Accessory Ordering Information

Suffix	Description
-J3.0	Digital Rs232/485 with DNP3.0 or Modbus
-1420	4 to 20 mADC, 1% accuracy
-101	0 to 1 mADC, 0.1 accuracy

## 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 and sound indicators
- Sensitivity - Up to 100 $\Omega$  resistance

# Switchboard Meters

DC Battery Voltage Meters



## Optional Fault Indicator (-BB) Information

### Operation:

Produces current pulses between the transmitter and the ground fault. A pulse receiver can trace the line with these pulses to the ground. Circuit breaker in the line can be identified and open to clean the ground from the system.

SBS's Battery Monitor is a breakthrough in ground fault detection. This full Battery Voltage/Ground Meter/ Alarm Relay automatically indicates the instant a ground occurs. The optional hand-held ground fault locator finds the exact location of that ground, no matter where it is in the line.

This highly accurate DC voltage meter relay provides voltage readings of battery, + or -BUS to ground, and ground fault voltages for protection of the essential BUS. The ground fault relays indicate the ground anywhere in the system, whether on the "+" or the "-" side. Over/Under Voltage relays are provided. Fail safe operation of the under voltage relay operates correctly down to zero volts. Time delay, which can be set from 5 to 60 seconds, is provided to avoid nuisance alarms.

## Features:

- On/off switch on front panel
- Automatic selection of grounded line
- Does not interfere with sensitive electronic equipment, radio, etc.

## Optional Hand Held Receiver:

Part No. 200A

- Does not contact circuitry
- LED and sound indications

## Ordering Information

Part No.	Description
25-469	125Vdc battery voltage meter
25-471	48Vdc battery voltage meter
25-472	250Vdc battery voltage meter
200A	Handheld receiver, suffix '-BB' is required

## Accessory Ordering Information

Suffix	Description
-BB	Optional fault indicator added to voltage meter
-J3.0	Digital RS323/485 with DNP3.0 or Modbus
-1420	4 to 20 mADC, 1% accuracy
-101	0 to 1 mADC, 0.1 accuracy