

SBS Portable Battery Monitor/Ground Fault Locator

Voltage/Ground Meter/Alarm Relays

Specifications

1. Battery Input

90 to 180 VDC, 3VA - For 125V battery

2. Ground Resistors

30K \pm 1% from each bus to ground

3. Voltage Indication

0 to \pm 199.9 VDC in 0.6" bright red LED digit and decimal point accuracy is \pm 0.2 VDC

4. Ranges

- +Bus to Ground (+GND)
- -Bus to Ground (- to GND)
- Ground Fault Voltage (Fault)
- Battery Voltage (BAT)

5. Scanning

Each range is automatically scanned and read every three seconds.

6. 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)

7. Time Delay

Can be set from 5 to 60 seconds

8. Reset

Panel push button or remote contact closure will reset an alarm provided the cause is removed

9. Contact Rating

2A at 120 VAC or 28 VDC

10. Limit Setting

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

11. Output Options

- 0 to 1mADC (isolated) into 0 to 10K load for 90 to 180 VDC input. Accuracy is \pm 0.1% of FS. P/N is 50-469-I01-BB
- 4 to 20 mADC (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-I420-BB
- Digital: RS232/485 with DNP3.0 or Modbus, P/N is 50-469-J3.0-BB

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



50-469-BB

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 Ω resistance

SBS Switchboard Meters

DC Battery Voltage Meters



25-469

The SBS DC Battery Voltage Meter has relay with ground fault protection, which automatically scans each range every three seconds. Digital and analog outputs are available for SCADA and in any voltage.

Optional Fault Indicator Specifications

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.

Features:

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

Receiver:

- Hand-held Part No. 200A
- Does not contact circuitry
- LED and sound indications

Output Options:

- 4 to 20 mADC
- 0 to 1 mADC
- DNP 3.0
- Modbus

Ordering Information

Add voltage to catalog number to complete:

- 26-328- ___ Digital DCV Transducer
- 25-321- ___ Digital DCV Switchboard meter
- 25-327- ___ Meter/relay/transducer
- 25-469- ___ V meter, ground meter/ alarm relay (shown)*

Call for other switchboard meters not shown

* Add suffix "-BB" for optional ground fault locator