

25-1000 Battery Monitor



QUICK START GUIDE

PRELIMINARY

1. Manual or Continuous Scanning of Limits and settings

- a. To manually scan/scroll through all the limits and setting short press the SCAN/MANUAL button
- b. To enable the unit to automatically scan/scroll through all the limits and setting long press (approx. 4 sec) the SCAN/MANUAL button
- c. To go back to manual scanning mode press and hold (approx. 4 sec) the SCAN/MANUAL button

2. Reset Alarm Relay Contacts

- a. Press the RESET button.

Note: All fault conditions must be cleared in order to reset alarm relays

3. Alarm Limits and Settings

From monitor (operating) MODE

- a. Press and Hold LIMIT button (approx. 4 sec)
LIMIT is now flashing in the lower display

- b. Short press LIMIT button
HBAT flashes in the lower display and the voltage value in the upper display

- c. Use the UP / Down buttons to adjust the *HBAT* limit voltage in the upper display
- d. When completed, short press the LIMIT button to move to the next alarm limit parameter and repeat step C
- e. When all the alarm limit parameters and setting (see below) are set Press and Hold the limit button for approx. 4 sec to get back to monitor mode. Note: In order to go back to monitor mode you must be in one of the menu items in FIG. 1

LIMIT
HBAT
LBAT
+GND
-GND
RVV
RIV
TD
1PH
POFF
BOFF
LOFF

FIG. 1

4. Alarm Enable / Disable

From monitor mode

- a. Press and Hold LIMIT button
LIMIT is now flashing
- b. Short press the LIMIT button until you scroll through to “SYS”
SYS and the software version is displayed
- c. Press and Hold LIMIT button
AC Y/N will be displayed in the lower readout
- d. Use the UP /DOWN buttons to enable or disable the system alarms shown above and short press the LIMIT button to scroll through
- e. To exit press and hold LIMIT button -> goes back to *SYS*, short press LIMIT button -> goes to *CAL*, short press LIMIT button -> goes to *LIMIT*, long press (approx. 4 sec) LIMIT button -> goes to monitor mode



AC Y/N
RV Y/N
RI Y/N
HIZ Y/N

5. Address and Baud Rate change

- a. Repeat step 2 a, b and c above
- b. Short press the LIMIT button until you scroll through to “SYS”
SYS and the software version is displayed
- c. Short press the LIMIT button to scroll through to *ADDR* and use UP / DOWN buttons to select the address
- d. Short press the LIMIT button to move to *BAUD* and the UP /DOWN button to select the baud rate
- e. To return to monitor mode long press the LIMIT button



ADDR
BAUD

6. Calibrate Analog Output and Adjust Displayed Battery Voltage

- a. To view the analog output of the battery monitor connect a handheld current meter's positive(+) lead to TB2-16 and the negative(-) lead to TB2-17
- b. Press and hold the LIMIT button (approx.. 4 sec) => *LIMIT* is now flashing, short press the LIMIT button until you scroll through to *CAL*, press and hold the LIMIT button => *ILO* (low current limit) will be displayed
- c. Use the UP/DOWN button to adjust the low current limit, as displayed on the handheld current meter, to 4.00mA
- d. Short-press the LIMIT button => to go to the next calibration point, *IHI* (high current limit)
- e. Use the UP/DOWN button to adjust the high current limit to 20.00mA
- f. Next, adjust the battery voltage readout: Connect the voltage input leads of your handheld digital volt meter to TB1-1 and TB1-2
- g. Go to the next calibration point, *VCAL*, short-press the LIMIT button
Use the UP/DOWN button to adjust the voltage readout of the Battery Monitor to match the handheld digital multimeter
- h. To return to monitor mode press and hold the LIMIT button