Voltage is an indicator of state-of-charge only when a battery's open circuit voltage is measured. Open circuit voltage is obtained when a battery is neither being charged nor discharged and the voltage is allowed to be stabilized. There is disagreement about the length of time the battery is required to rest before a usable open circuit voltage is obtained. However, it is recommended that in the first 10 to 20 minutes of rest the voltage will settle to a figure close to the fully charged level. A completely recharged open circuit voltage, which is generally considered to be obtained after 24 hours. Gol batteries can take up to 48 hours. With experience, the user will learn the time required for reliable readings on any particular system.

For maximum life a battery should be discharged no more than 50%. Once a battery is about 80% of full charge, its acceptance rate decreases rapidly and it can take a long time to bring the charge to 100%. For this reason, the practical operating range becomes the 50 - 80% charge area.

Wire by Wire Instructions

NOTE:
Use 16 AWG wire for all meter wiring.
All models require connections to terminals #1 and #2.
Terminal #3 used for models PN 8235, PN 8248, and PN 8251.
Terminals #4 and #5 used for PN 8236 and PN 8248 only.

1. Use 16 AWG wire
2. Fuse all positive connections
3. Connect to meter terminals
   1. Negative Bus
   2. Power 8-50V DC (House)
   3. Voltage Sense (VMTR+)
4. Do not use
5. Do not use

1. Negative Bus
2. Power 8-50V DC (House)
3. Voltage Sense (VMTR+)
4. Do not use
5. Do not use

DC Digital Voltmeter Panel PN 8051 Instructions

Warranty
ALL BLUE SEA SYSTEMS DIGITAL METERS ARE WARRANTED TO BE FREE FROM DEFECTS IN MATERIALS OR WORKMANSHIP FOR THREE YEARS FROM THE DATE OF FIRST PURCHASE.

“DATE OF FIRST PURCHASE” MEANS:
(i) the date on which the product was purchased by the first retail customer.
(ii) the date on which the first retail customer purchases a vessel on which the product was installed.

BLUE SEA SYSTEMS WILL (AT ITS SOLE DISCRETION) REPAIR OR REPLACE ANY PRODUCT WHICH IS:
(i) proven to be defective in materials or workmanship
(ii) returned to Blue Sea Systems (or its agent) during the warranty period in accordance with this warranty.
Replacement products may be new or refurbished in as-new condition. Such repair or replacement will be the sole remedy by Blue Sea Systems under this warranty. Any repaired or replacement product will be warranted in accordance with this warranty, for the unexpired balance of the warranty period on the original product.

Warranty Registration
Blue Sea Systems is committed to exceptional customer service. Please allow us to serve you better by registering your product online at http://bluesea.com/go/warranty-registration. If you would prefer to register your product by fax, please call (360) 738-8230 or Toll Free in the USA and Canada (800) 222-7617 for a fax-ready Warranty Registration card.