

# BALMAR SG200 Battery Monitor

*Balmar's Expandable, Next Generation Monitor*

- **Learns & Displays All Critical Battery Parameters**
  - State of Charge (SoC%)
  - State of Health (SoH%)
  - Charge/Discharge Current Flow
  - Time Remaining
  - History, Faults & Alerts
- **Support for All Common Battery Chemistries & Voltages**
  - Including Lead Acid, Lithium (LiFePO<sub>4</sub>), Standard AGM, TPPL AGM, Carbon Foam AGM, and GEL Batteries
  - Supports 12V-48V Battery Banks
  - Typically 97% Accurate for SoC% within 2 Cycles
  - Auto-Calibrating
  - Does not Lose Accuracy with Age
- **Large, Bright Colour Display**
  - Sunlight Readable, Configurable & Dimmable
  - 60 Degree Viewing Angle
  - Fits in Standard 2 1/16" Gauge Socket
- **Expandable Architecture**
  - Support Multiple Displays (Optional)
  - Supports Multiple Battery Banks (Optional)
  - Standard Support for 2 Start Batteries (Voltage Only)
  - Simple, easy-to-install Point-to-Point Network
- **Optional Smartphone/Bluetooth® Gateway**
  - Free iOS and Android Apps (*Requires Bluetooth® Gateway PN SG2-0300*)
  - View All Parameters on your Phone
  - Download Product Updates



Balmar has combined recent technology advances to introduce a next generation battery monitor. The SG200 is quite simply the most accurate battery monitor available today. Balmar has combined the best features of its 1<sup>st</sup> generation Smartgauge™ with many advantages of a shunt-based amp-hour counting system. Further, we've designed a device architecture which facilitates multiple Displays or multiple SmartShunts to be added to the network-allowing the boater to monitor multiple energy storage banks simultaneously from multiple locations.

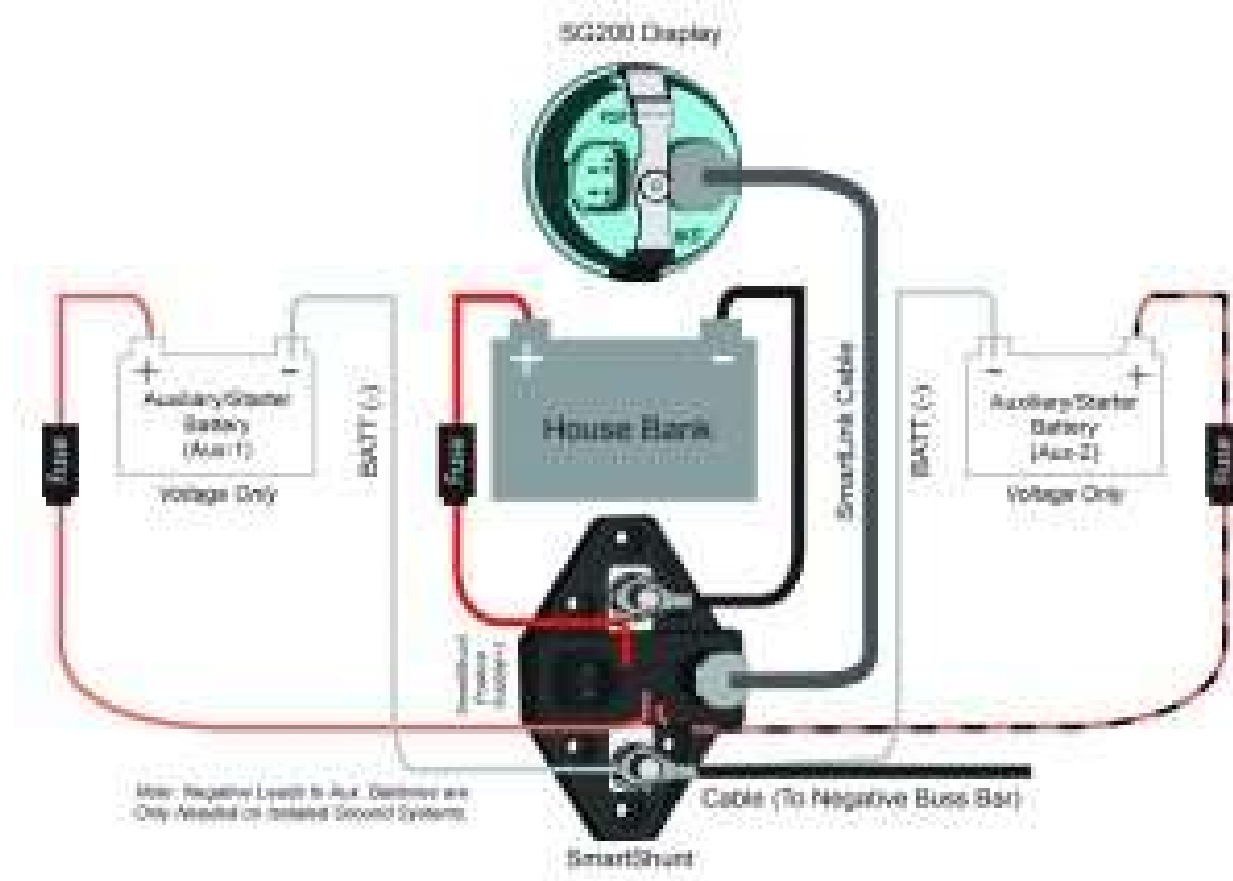
In addition, the SG200 Colour Display is easy to read, configurable and fits any standard 2 1/16" gauge socket. Now you can determine your battery(s) condition from anywhere on the vessel or vehicle with multiple Displays, or simply add the optional Bluetooth® Smartphone App to keep information in your pocket!

### Data Displayed



State of Charge (SoC%)	State of Health (SoH%)	Charge/Discharge Amps	Time Remaining
Accurate display of your battery's State of Charge after just two discharge cycles	Proprietary self-calibrating algorithm determines how your battery has aged from its original capacity.	Displays the real-time current flowing in or out of your house battery.	Time remaining until empty when discharging, or time remaining until full when charging.

## Base Configuration Wiring



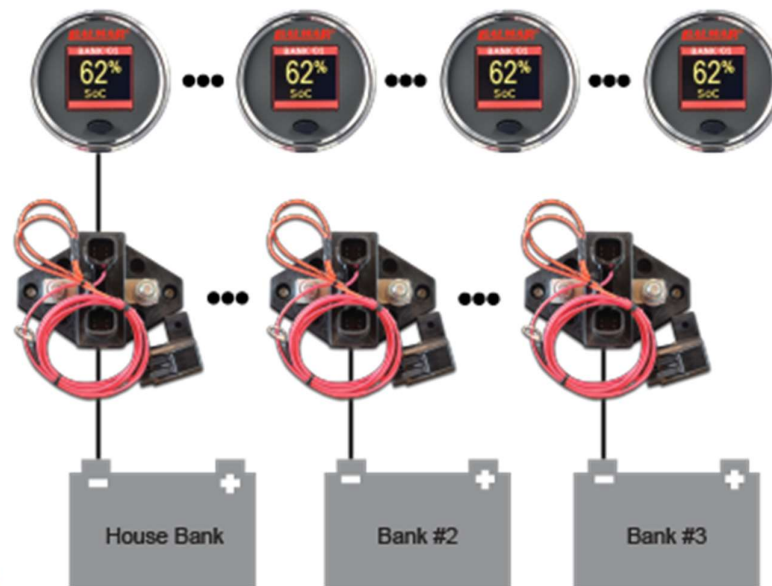
[Click Here for more information on SG200 Upgrades](#)

[Click Here to Download the SG200 Battery Monitor Manual](#)

[Click Here to Download the SG2-0300 Bluetooth Gateway Quick Start Guide](#)

[Click Here to Download a Hint Video for Installing the SG200 Communications Cable](#)

[Click Here to View a Video of Rodd Collins with Compass Marine Reviewing the SG200 Battery Monitor](#)



### ***Expandable Architecture***

- **Build your own battery monitoring network**
- **Add colour displays for viewing data in different locations**
- **All battery information can be displayed anywhere on the SmartLink Network**
- **For additional flexibility, purchase the optional Bluetooth® Gateway and download Balmar's Smartphone App**
- **Add SmartShunts if you have multiple banks:**
  - Stern thruster**
  - Bow thruster**
  - House bank #2**

## Order Guide

Part Number	Description	Explanation / Includes
<a href="#">SG200</a>	Battery Monitor Kit, 12V-48V	Standard Unit for Initial Purchase: Includes Color Display, SmartShunt, SmartLink Com Cable
<a href="#">SG2-0100</a>	SmartShunt, SG200, 350A, 12V-48V	Add a SmartShunt for Additional Bank: Includes SmartShunt and SmartLink Com Cable
<a href="#">SG2-0200</a>	Color Display, SG200, 2 1/16"	Add a Color Display to an existing SmartLink Network
<a href="#">SG2-0300</a>	Gateway, SG200, Bluetooth®	Optional 39" Bluetooth® Gateway for Smartphone App
<a href="#">SG2-0400</a>	Com Cable, SG200, 10m	Optional SmartLink Com Cable (10 meter) for Longer Cable Runs
<a href="#">SG2-0402</a>	Adapter Plate, SG200	Optional Adapter Plate to Mount SG200 into the Smartgauge™ Socket

## SG200 Specifications

<b>Standard Configuration:</b>	1 Bank per SmartShunt Device 2 Start/Auxiliary Voltage Sense Lines <i>(Up to 32 devices including Displays and SmartShunts can be added to a single network)</i>	<b>Display Values:</b>	State of Charge (SoC%) State of Health (SoH%) Voltage (V) Charge/Discharge Current (A) Time Remaining (Hrs) History, Faults & Alerts <i>(Consult User Manual)</i>
<b>Supply Voltage Range:</b>	8V – 60V DC	<b>Max Ah Capacity:</b>	1250 Ah (per SmartShunt)
<b>Average Supply Current:</b>	Display On: 20 mA @ 12V Sleep Mode: 10 mA @ 12V	<b>Communications Cable:</b>	4 wire, 22 AWG, Shielded 4 pin Deutsch DT Style
<b>SmartShunt Operating Temperature:</b>	40°C to +85°C	<b>Grounding:</b>	Negative Battery Connection
<b>SmartShunt Max Current:</b>	600A Instantaneous (10 minutes @ ambient) 350A Continuous <i>(For Higher Currents Consult User Manual)</i>	<b>SmartShunt Dimensions:</b>	Length: 124 mm Width: 85 mm Height: 51 mm
<b>Weights:</b>	SmartShunt: 282g Colour Display: 73g	<b>Color Display Dimensions:</b>	Bezel Diameter: 60 mm Base Diameter: 52 mm Depth with Attachment Cable: 70 mm
<b>Standards Compliance:</b>	CE EMC Directive 2014/30/EU ROHS 2 Directive 2011/65/EU	<b>Protection Rating:</b>	IP65 (Display), IP67 (SmartShunt)