





AMPTRON RS485 Blu Edge Battery Display User Manual

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AMPTRON RS485 Blu Edge Battery Display



FAQs

Q: How can I check the remaining capacity of the battery?

A: The Remaining Capacity (Ah) is displayed on the main screen and can be monitored for each individual cell or battery module.

Q: What does the State Of Charge (SOC) represent?

A: SOC indicates the current charge level of the battery, helping you understand how much charge is left.

Q: How do I know if there is an alarm triggered?

A: The display will show Battery Status as Normal or Alarm. For detailed alarm information, refer to the alarm list provided in the manual.

Thank you

Dear valued customer, Thank you for choosing Amptron Products. We greatly appreciate your support. Our team works behind the scenes to create advanced battery systems while providing top-notch Australian-based service to our customers. Support and feedback from our customers, along with the dedication of our staff, allows us to deliver exceptional products, competitive prices, and an overall excellent experience. Thanks again for giving us your vote of confidence. We hope that you'll enjoy using our products as much as we've enjoyed creating them. Please feel free to reach out to us anytime. Sincerely, Amptron

Product Registration

Vendor:

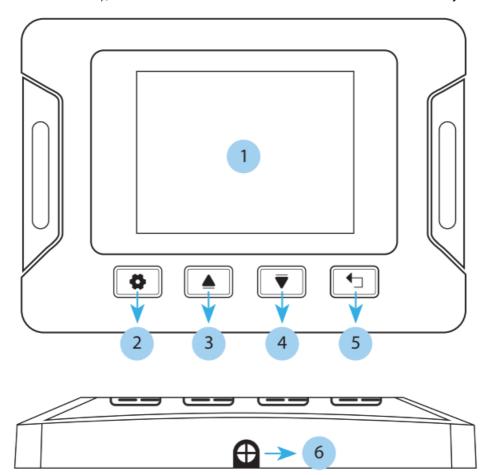
The latest warranty statement and additional warranty information can be found on our website by visiting: https://amptron.au/warranties

General Description

This colour LCD screen is a display accessory for Amptron's BluEdge Battery series. Simply connect the display to a BluEdge battery (or a bank of batteries that supports parallel communication) with a compatible communication cable to get an instant visual overview of the key status of your battery system. The display comes with built-in audible warning alarm for critical errors.

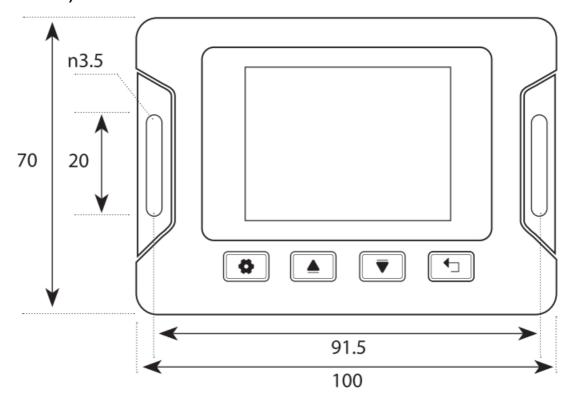
Key Features

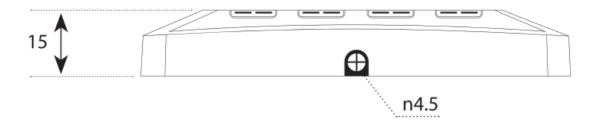
- Quick, easy setup to display key battery information such as State of Charge(% and Ah), Voltage, Current draw, Temperature, Cycles, etc.
- Suitable for compliance with AS/NZS 3001.2.20222 and AS/ NZS 3004.2:2014 standards.
- A built-in audible alarm that will trigger adverse battery conditions prior to battery shut-down.
- · Conveniently view any battery alarm codes.
- Easy installation with common cables, for remote battery monitoring with flexible flush-mounted design.
- View consolidated battery information for a bank/group of connected batteries in one display (for models that support parallel communication), and dive into detailed cell data for each connected battery in the group.



1	LCD Main Screen	4	Down Key
2	Setting / Enter	5	Return / Back Key
3	Up Key	6	RS-485 Wiring Hole

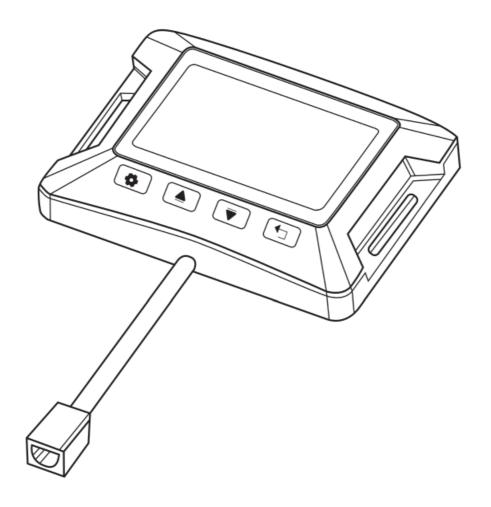
Dimensions /mm)





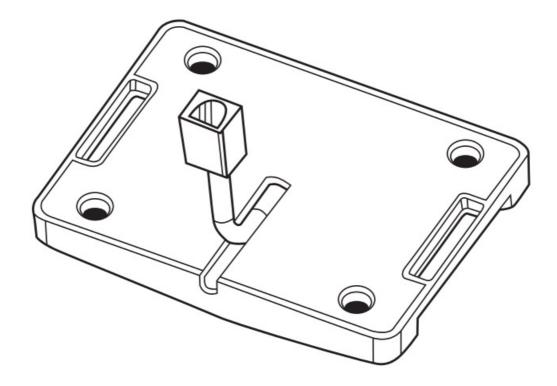
Mounting Instructions

There are two ways to mount the display. The monitor can be mounted directly to a wall, without a cavity behind it. In this example, the wire can be routed to run through the bottom of the display, allowing a flush mount to the surface.



Mounting Instructions Cont.

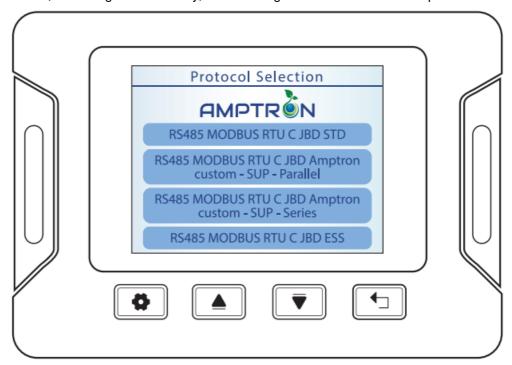
In the second example, the monitor is installed on a wall with a cavity behind it. In this case a hole can be drilled (30mm diameter) allowing the RS485 port to be pushed into the recess to allow hidden connection to the equipment.



Must be installed in a dry location.

Protocol Selection

The BluEdge monitor has different protocols available. The choice of protocol depends on your battery model and/or configuration (single battery, batteries connected in parallel or batteries connected in series). When connecting the monitor, or turning on the battery, the following selection screen will be presented:



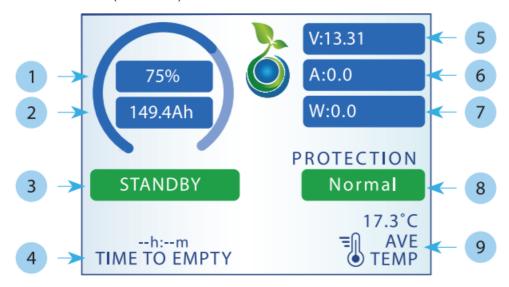
Protocol Selection Cont.

Use the and T arrows to select the correct protocol and the O icon to select the chosen protocol. Please consult your battery user manual for the applicable protocol to select for your battery(s), or head to our website for the latest mapping of protocols to use for each battery model:

https://amptron.au/product/lcd-2-4-inch-full-colour-rs485-bluedge-bms-display

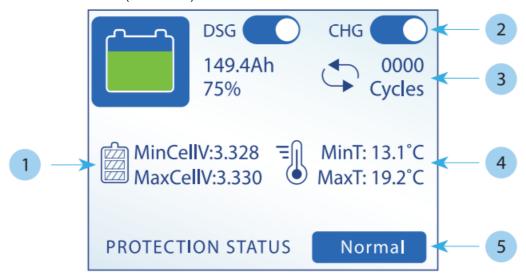
Screen Detailed Descriptions

• RS485 MOBUS RTU-JBD STD (Protocol 1)



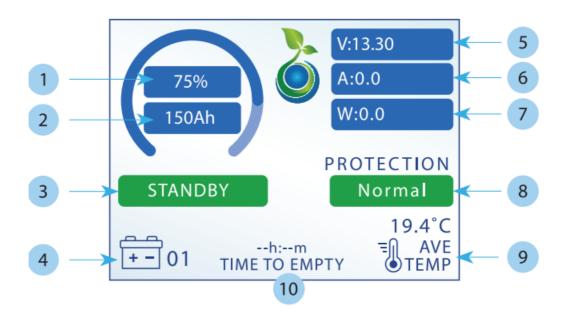
1	SOC (State Of Charge)	6	Battery Amperage (charge/discharge)
2	Remaining Capacity (Ah)	7	Battery Wattage
3	Status (standby/charge-discharge)	8	Battery Status Normal/ Alarm (see alarm li st)
4	Time To Empty (time until depletion)	9	Battery Average Temp (averaged across 3 sensors)
5	Battery Voltage		

• RS485 MOBUS RTU-JBD STD (Protocol 1) Cont.



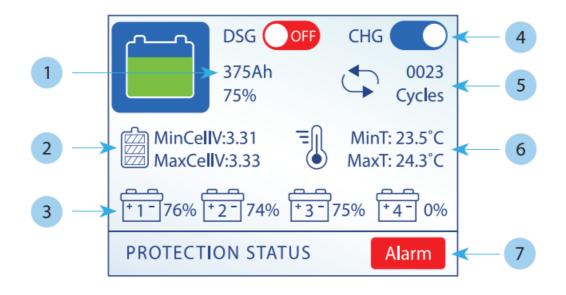
1	Min/Max Cell Voltages	4	Min/Max Cell Temperature
2	MOSFET State	5	Battery State Normal/ Alarm
3	Total Cycle Count		

- RS485 MOBUS RTU-JBD Custom-SUP-Parallel (Protocol 2)
- RS485 MOBUS RTU-JBD Custom-SUP-Series (Protocol 3)



1	Averaged SOC (State Of Charge)	6	Averaged Battery Amperage
2	Remaining Capacity (Ah)	7	Averaged Battery Wattage (charge/discharge)
3	Status (standby/charge-discharge)	8	Battery Status Normal/ Alarm (see alarm li st)
4	No# Batteries in Group/Online	9	Battery Average Temp (averaged across 3 sensors)
5	Averaged Battery Voltage	10	Time To Empty (time until depletion)

• Detailed Information / Screen 2



1	Remaining Total Capacity (Ah)	5	Total Cycle Count
2	Min/Max Cell Voltages (master battery)	6	Min/Max Cell Temperature
3	Group of Batteries SOC Overview	7	Battery State Normal/ Alarm (see alarm list)
4	MOSFET State		

Alarm Screen (Protocol 1/2/3)

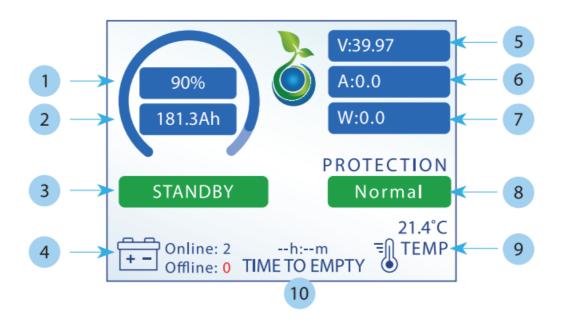
- RS485 MOBUS RTU-JBD STD
- RS485 MOBUS RTU-JBD Amptron custom-SUP-Parallel
- RS485 MOBUS RTU-JBD Amptron custom-SUP-Series
- Screen 3 in protocol 1,2,3 appears as below:



 Please see our website for the latest error codes and descriptions of what this means in relation to the BluEdge Batteries. Website: https://amptron.au/info/bluedgerange

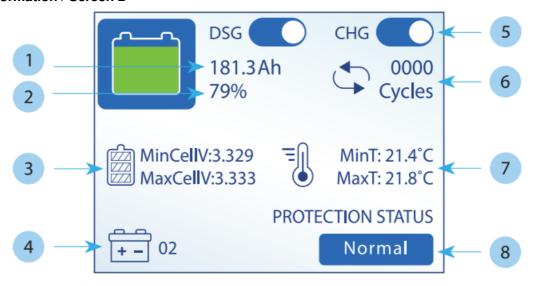
Home Screen / Screen 1

• RS485 MOBUS RTU-JBD ESS (Protocol 4)



1	Averaged SOC (State Of Charge)	6	Averaged Battery Amperage (charge/discharge)
2	Remaining Total Capacity (Ah)	7	Averaged Battery Wattage (charge/discharge)
3	Status (standby/charge-discharge)	8	Battery Status Normal/ Alarm (see alarm list)
4	No# Batteries in Group/Online	9	Battery Average Temp (averaged across battery bank)
5	Averaged Battery Voltage	10	Time To Empty (time until depletion)

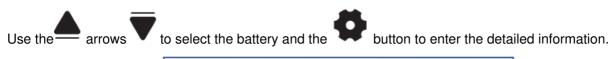
Detailed Information / Screen 2

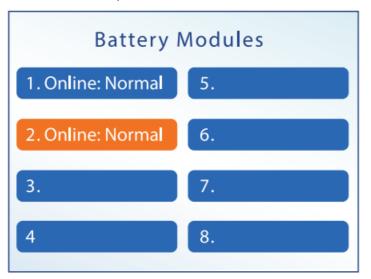


1	Remaining Total Capacity (Ah)	5	MOSFET State
2	Averaged SOC (State Of Charge)	6	Total Cycle Count
3	Min/Max Cell Voltages (total pack)	7	Min/Max Cell Temperature
4	No# Batteries in Group/ Online	8	Battery State Normal/ Alarm (see alarm list)

RS485 MOBUS RTU-JBD ESS (Protocol 4)

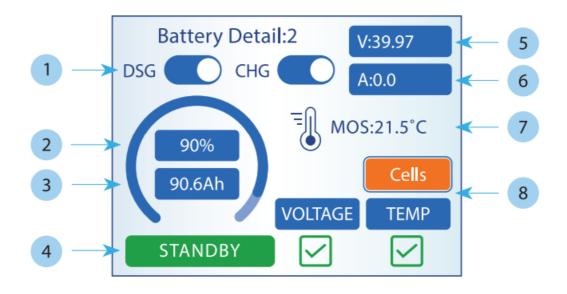
• Select Battery Module / Screen 3





Detailed Battery Module Information / Screen 4

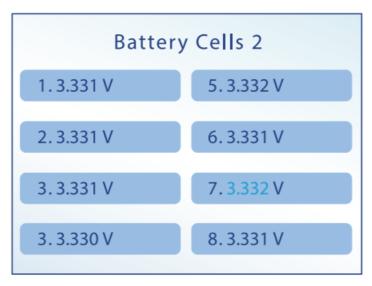
Use the and • arrows to select the cells, voltage, or tempicon and the button to enter the detailed information. The detailed screens for cells, voltage and temp are shown.



1	MOSFET State	5	Battery Voltage
2	Averaged SOC (State Of Charge)	6	Battery Amperage
3	Remaining Module Total Capacity (Ah)	7	BMS MOSFET Temp
4	Status (standby/charge/discharge)	8	Cells, Voltage & Temp Icons (click for detail ed info)

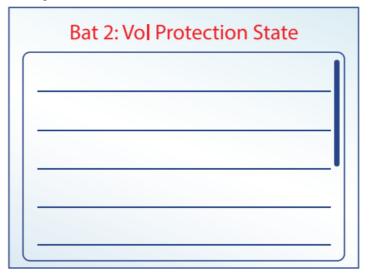
RS485 MOBUS RTU-JBD ESS (Protocol 4)

Individual Cell Voltages Of Selected Module / Screen 5



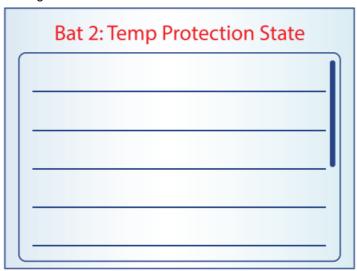
RS485 MOBUS RTU-JBD ESS (Protocol 4)

Selected Module Temp and Voltage Alarms/ Screen 6



RS485 MOBUS RTU-JBD ESS (Protocol 4)

Selected Module Temp and Voltage Alarms/ Screen7



Please see our website for the latest error codes and descriptions of what this means in relation to BluEdge Batteries. amptron.au/info/bluedgerange

CONTACT INFORMATION

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- w: amptron.au

Documents / Resources



AMPTRON RS485 Blu Edge Battery Display [pdf] User Manual

RS485 Blu Edge Battery Display, RS485, Blu Edge Battery Display, Edge Battery Display, Batte ry Display, Display

References

• User Manual

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