BMPRO OWNER'S MANUAL

TREK3



TEAMBMPRO.COM

SAFETY PRECAUTIONS

Please read the Safety Precautions before installing or using the Trek3. Be sure to observe all precautions without fail. Failure to observe these instructions properly may result in personal damage or personal injury which, depending on the circumstances, may be serious and cause loss of life.

WARNING	
⚠	Correct installation is the most critical factor in ensuring the safe use of the Trek3. If every consideration of these instructions has been satisfied, the Trek3 will be safe to operate.
⚠	Keep the Trek3 away from water or other liquids.
⚠	Clean the housing of this product lightly with a dry or moist cotton cloth. Do not use alcohol, thinners, benzene or any other chemical cleaner. Do not allow any liquids to enter the housing.
⚠	The Trek3 is a high precision electronic product. It contains no user-serviceable parts inside. Do not try to dismantle, modify or repair it yourself. Disassembly, service or repair by an unauthorised person will void the warranty.
⚠	Product specifications are subject to change and improve without notice.

BMPRO
Copyright © 2025 REV **5.0**
First published 2021-02-02
Last updated 2025-11-27

Proudly designed in Melbourne by BMPRO, one of Australia's leading power solution experts. Our range represents high-quality products that will provide years of service.

DISCLAIMER: BMPRO accepts no liability for any loss or damage which may occur from the improper or unsafe use of its products. Warranty is only valid if the unit has not been modified or misused by the customer.

CONTENTS

SAFETY PRECAUTIONS 2

ABOUT THE TREK3 6

OPTIONAL ADD-ONS 6

TREK3 SYSTEM DIAGRAM 7

DESCRIPTION OF PARTS 8

MOUNTING THE TREK3 11

USING YOUR TREK3 12

TREK3 SET-UP MODE 13

CLOCK MENU FUNCTION 15

WATER TANK MENU FUNCTION 16

CONFIGURING BATTERY CAPACITY 17

CONFIGURING BATTERY CHEMISTRY 17

CONFIGURING BATTERY ALARM 18

LCD BACKLIGHT 18

FACTORY RESET 19

ADVANCED MENU FUNCTIONS 20

SERVICING 21

FAQS AND TROUBLESHOOTING 21

SPECIFICATIONS 22

WARRANTY TERMS AND CONDITIONS 24

LIMITED WARRANTY TERMS AND CONDITIONS (USA) 26

COMPLIANCE 27

ABOUT THE TREK3

The Trek3 is a wall-mounted smart battery monitor designed specifically to operate with BMPRO's BatteryPlus35-II.

The Trek3 provides vital data at a glance including caravan battery voltage and charging/discharging current. The Trek3 also provides an indication of the battery's remaining charge capacity as well as the time remaining before the battery cuts out from low voltage disconnect - so you'll never be left on the road without battery power.

In addition to battery monitoring, the Trek3 enables monitoring of water levels of up to four water tanks and control of two water pumps, all from a sleek, wall mounted display.

The Trek3 can be connected to the included OdysseyLink105 to become part of the Odyssey system. Once connected to the OdysseyLink105, you can use BMPRO's free Odyssey App to remotely monitor your battery and control your caravan's water pumps from your smartphone!

For more information about Odyssey, refer to your Odyssey Owner's Manual.

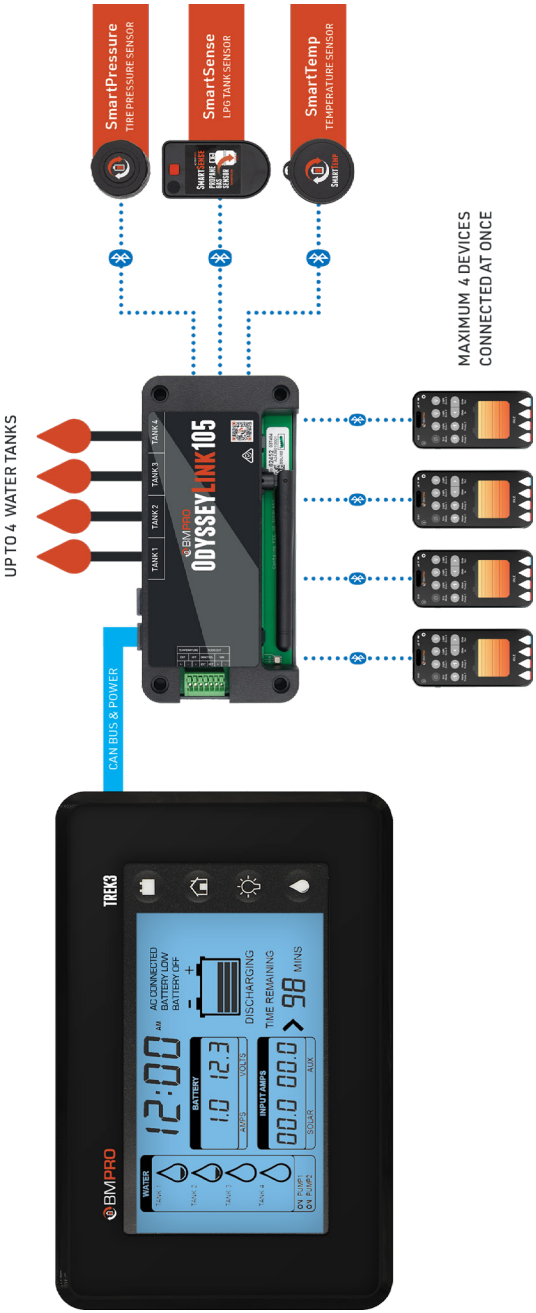


OPTIONAL ADD-ONS

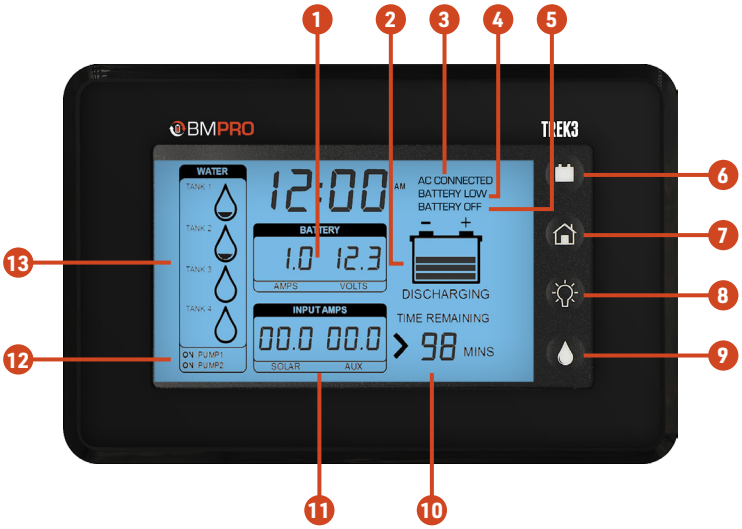
To get the most out of your Trek3, it may be used with the following products from the BMPRO range:

- Dipper water level indicator

TREK3 SYSTEM DIAGRAM



DESCRIPTION OF PARTS



1. **Battery**
   Displays the charging/discharging current and voltage of the caravan battery connected to the BatteryPlus35.

   The Battery display will flash if BMPRO's BC300 External Shunt + CommLink has been installed and communication with the BC300 is lost.

2. **Battery Capacity Bar Graph**
   Displays an estimate of the capacity of the connected battery, and underneath indicates if the battery is 'CHARGING' or 'DISCHARGING'.

3. **AC Connected**
   Appears when the BatteryPlus35 is connected to AC mains.

4. **Battery Low**
   Appears when the battery voltage falls below the low voltage warning threshold and indicates that the battery requires charging.

   By default, the low voltage warning threshold is 11V for lead acid batteries and 12.3V for LiFePO4 batteries. These thresholds can be configured.

5. **Battery Off**

Battery Off will appear when:

- The battery button is pressed to enter ECO mode.
- The BatteryPlus35 has automatically entered ECO mode to preserve battery capacity until the battery can be charged.

To reduce current draw from the battery, all other display segments on the Trek3 will turn off as well.

6. **Battery Button**

Used to enable ECO mode, which powers off all caravan loads connected to the BatteryPlus35 load terminal block, except for terminal 1. Battery charging is not affected by ECO mode.

As the caravan is no longer powered, ECO mode is a convenient way to save remaining battery power if you are on the road and have limited ability to charge the battery.

When charging, ECO mode ensures that all available charging current is dedicated to charging your battery.

In Set-Up mode, the Battery button acts as the edit function.

7. **Home Button**

Used to enter Set-Up mode on the Trek3 and configure user settings. In Set-Up mode, the Home button acts as the back function.

8. **Backlight Button**

Used to turn the backlight/nightlight of the Trek3 screen on or off.

A single press of the Backlight button will turn the backlight on. Press again to turn the backlight off.

The backlight will automatically turn off after 30 seconds.

To turn the nightlight on, press and hold the Backlight button for three seconds or until the backlight blinks. The nightlight will stay on for 10 hours. To turn nightlight off, press and hold the Backlight button until the nightlight turns off.

In Set-Up mode, the Backlight button acts as the up-scroll arrow function.

9. **Water Pump Button**

Used to turn the water pumps connected to the BatteryPlus35 on and off. When the BatteryPlus35 and Trek3 are first powered on, both pumps will be turned on as well.

To turn pump 1 on/off, press the Water Pump button once.

To turn pump 2 on/off, press and hold the Water Pump button.

In Set-Up mode, the Water Pump button acts as the down-scroll arrow function.

10. Time Remaining

Indicates the estimate time remaining until the battery is cut off from low voltage disconnect (LVD).

Time remaining less than 180 minutes will be displayed in **MINS**. Time remaining greater than 180 minutes will be displayed in **HRS**.

11. Input Amps

Displays the current drawn by the BatteryPlus35 from its auxiliary and solar inputs to power loads and charge the caravan battery.

If either of the inputs are unavailable to the BatteryPlus35, the Trek3 will display "--.-". If either of the inputs are available to the BatteryPlus35 but not in use, the Trek3 will display "00.0".

12. Water Pump Status

Indicates if the pumps connected to the BatteryPlus35 are turned on or off.

13. Tank Level Indicators

Monitor water tank levels of up to 4 water tanks.

By default, tanks 1 and 2 are set-up to monitor clean water tanks and tanks 3 and 4 to monitor dirty water tanks. Tank properties are configurable in Set-Up mode.

The tank level indicator will flash when the monitored tank is empty or approaching empty (clean water) or full or approaching full (dirty water).

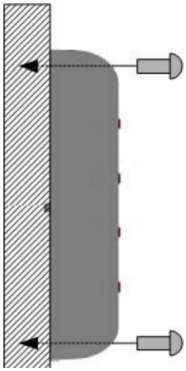
A clean water tank flashes when the water level dips below the one quarter full point. A flashing clean tank could be anywhere from empty to a quarter full.

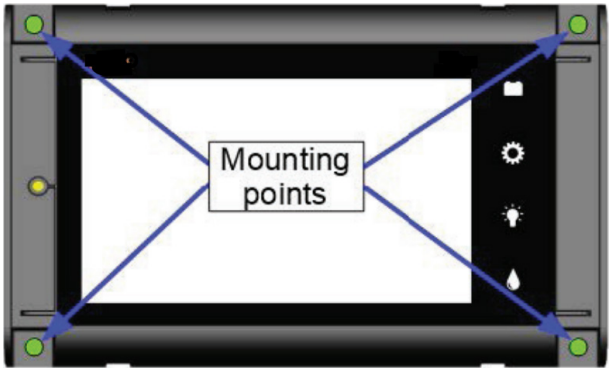
If a tank is not monitored, the indicator will be blank.

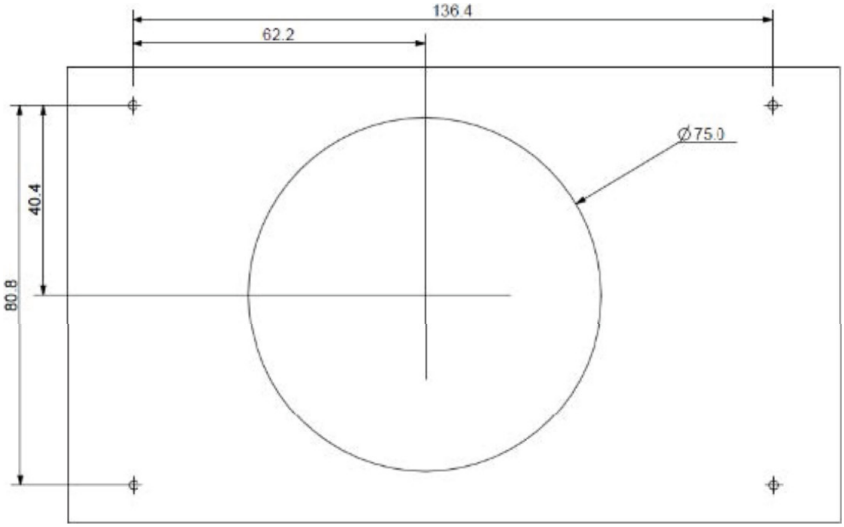
MOUNTING THE TREK3

The Trek3 is designed to be mounted to the wall directly with screws. A hole for the connectors must be drilled before mounting.

Flat head screws with a maxiumum diameter of 4.0mm must be used for mounting.







After fixing the Trek3 to the wall, make all connections at the rear of the Trek3.

Once all connections are made, clip on the provided fascia cover to the Trek3.

USING YOUR TREK3

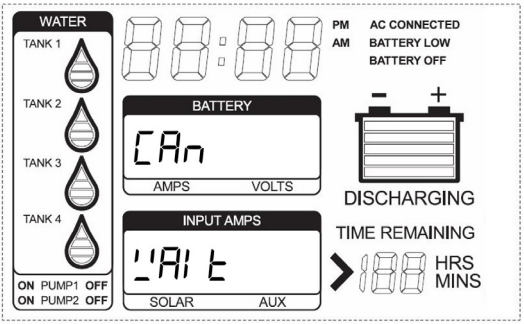
The Trek3 does not have an ON/OFF button. The Trek3 receives power directly from the BatteryPlus35 through the connected data cable. The Trek3 will automatically turn off if it is not receiving power from the BatteryPlus35.

Upon start-up, the Trek3 will display CAn and WAIt in the Battery and Input Amps areas of the Home screen, until communication between the Trek3 and BatteryPlus35 is established.

Once communication is established, the Trek3 will display the relevant battery and system information on its screen.

If the Trek3 cannot establish communication to the BatteryPlus35, the Trek3 will display CAn and Err to in the Battery and Input Amps areas.

If this error occurs, check the data cable between the Trek3 and BatteryPlus35.

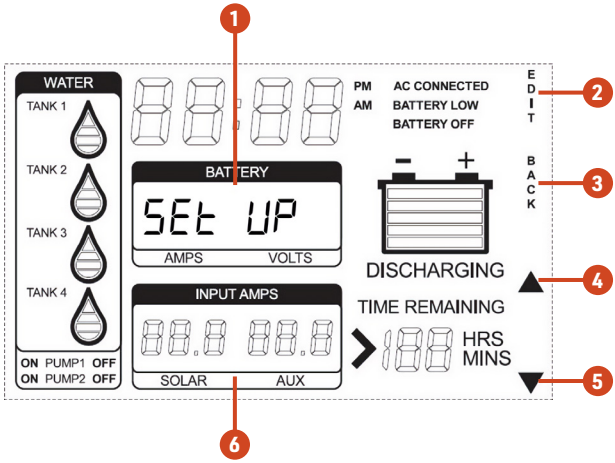


TREK3 SET-UP MODE

Entering Set-Up Mode

The Trek3 Set-Up mode allows you to access the functions to configure the Trek3 display, enter important battery information, set alarms and configure tanks.

To enter Set-Up mode, hold the HOME button down until SEt UP is seen on the Battery display.



1. & 6. Menu Function Display

Displays the various Set-Up menu functions that can be accessed in Set-Up mode and any associated information. If the function can be edited, the menu function will flash on screen.

2. Edit

Use the Battery button on the Trek3 to select a menu function or sub-function to edit.

3. Back

Use the Home button on the Trek3 to return to the previous screen or menu function. Repeatedly press the Home button to return to the Trek3 home screen.

4. & 5. Scroll Arrows

Use the Home button on the Trek3 to return to the previous screen or menu function. Repeatedly press the Home button to return to the Trek3 home screen.

Exiting Set-Up Mode

To exit Set-Up mode or to exit from any menu function available in Set-Up mode, repeatedly press the BACK button until the Trek3 enters the Home screen.

Alternatively, wait and the Trek3 will automatically revert to the Home screen, saving any changes made when editing the menu functions.

Set-Up Mode Menu Functions

The following table lists the standard menu functions available from Set-Up mode. When in Set-Up mode, use the up and down scroll arrows to navigate the Set-Up menu functions.

CLOCH	Set time on the Trek3 display
tAnHS	Configure the water tanks
bAtCAP	Configure the battery capacity of the battery connected to the BatteryPlus35
bAtALn	Adjust low voltage warning thresholds for the low battery alarm
bAHLIt	Adjust the LCD backlight
AdvAnC	Advanced menu settings. For technical personnel only. The functions available in the Advanced menu setting may vary with some versions of the BatteryPlus35.
SOLS_'	Displays the solar software version, available only when solar source is present
SOLH_'	Displays the solar hardware version, available only when solar source is present
bP35 S_'	Displays the BatteryPlus35 software version
bP35 H_'	Displays the BatteryPlus35 hardware version
tr2S_'	Displays the Trek3 software version
tr2H_'	Displays the Trek3 hardware version
FACtrY	To perform a factory reset

If additional devices are connected and installed to the system, additional menu functions will appear when navigating Set-Up mode.

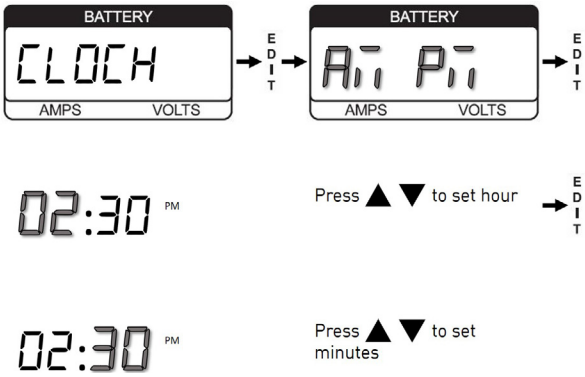
The additional menu functions will display the CAN ID number of the installed device, as well as the software (S_') and hardware (H_') version number.

CLOCK MENU FUNCTION

Time may be set in either 12- or 24-hour formats.

12-Hour Format

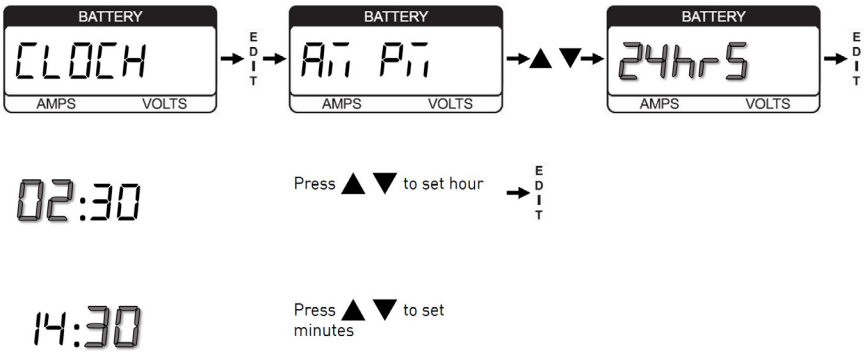
1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Navigate to the CLOCH menu function.
3. Follow the below directions to set the time in 12-hour format:



The will automatically change between AM and PM as the hour changes from 11 to 12.

24-Hour Format

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Navigate to the CLOCH menu function.
3. Follow the below directions to set the time in 24-hour format:

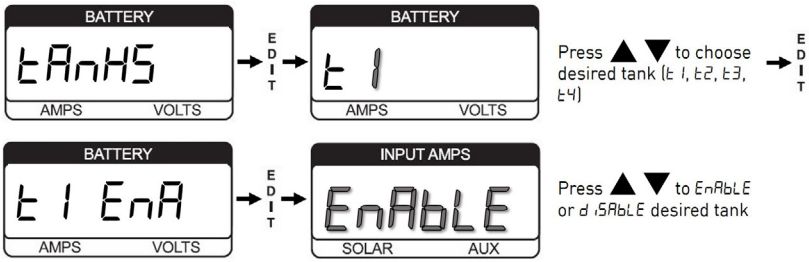


WATER TANK MENU FUNCTION

Use the Water Tank menu function to choose to monitor and display (enable on/ disable off) a water tank and configure the water tank type (clean/dirty).

Enable and Disable Water Tank Monitoring and Display

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Navigate to the tAnKS menu function.
3. Follow the below directions to enable or disable the monitoring and display of a water tank:

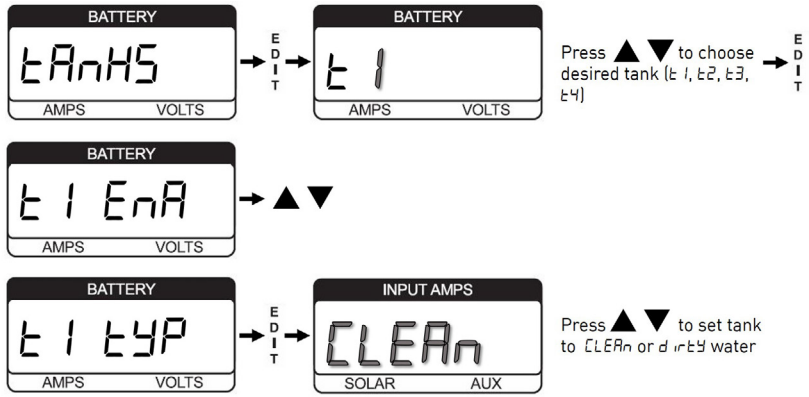


Configure Water Tank Type

The ability to configure a water tank type is only available if monitoring of the tank is enabled.

To configure a water tank type:

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Navigate to the tAnKS menu function.
3. Follow the below directions to configure the water tank type.



CONFIGURING BATTERY CAPACITY

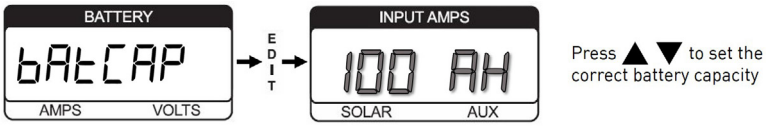
The battery capacity needs to be set whenever a new battery is fitted to the BatteryPlus35. By default, the battery capacity is set to 100AH.

Correctly configuring the battery capacity ensures that the BatteryPlus35 will select the best charging parameters for the caravan battery in use and the software accurately estimates battery usage including Battery Capacity and Time Remaining.

The battery capacity can be adjusted between 50 and 600AH in steps of 10AH.

To configure battery capacity:

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Navigate to the bAtCAP menu function.
3. Follow the below directions to configure the battery capacity:



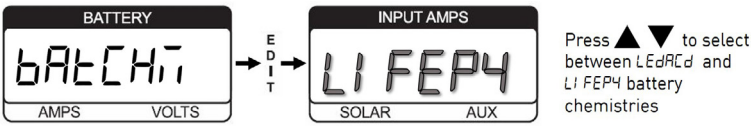
CONFIGURING BATTERY CHEMISTRY

If you are using the Trek3 with the BatteryPlus35-HA and a LiFePO4 lithium battery, you will need to configure the battery chemistry.

By default, the BatteryPlus35-HA is configured to charge lead acid batteries. This can be changed with the Trek3 monitor.

To configure the BatteryPlus35-HA to charge LiFePO4 batteries with the Trek3 monitor:

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Select the AdvAnC menu function.
3. Navigate to the bAtCHn menu function.
4. Follow the below directions to configure battery chemisty:



CONFIGURING BATTERY ALARM

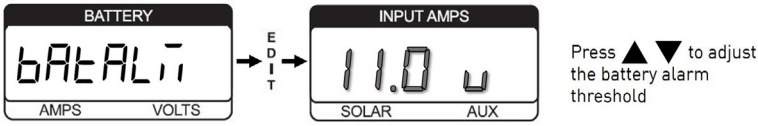
Configure the battery alarm and set the low battery voltage warning threshold to trigger the Battery Low warning on the Trek3 Home screen to indicate that the battery requires charging.

By default, the low voltage warning threshold is 11V for lead acid batteries and 12.3V for LiFePO4 batteries.

The battery alarm can be adjusted between 10.0 and 14.0V in steps of 0.5V.

To configure the battery alarm:

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Navigate to the bAtALn menu function.
3. Follow the below directions to configure the battery alarm:



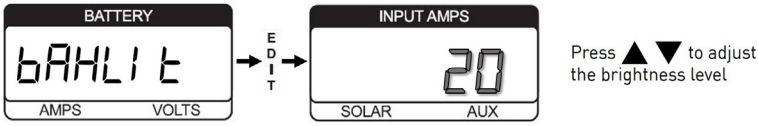
LCD BACKLIGHT

Use the LCD Backlight function to change the brightness level of the Trek3's LCD backlight.

The brightness can be adjusted between 0 and 100% in steps of 10%.

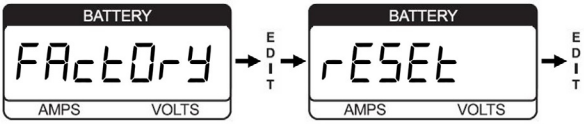
To configure the LCD backlight brightness:

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Navigate to the bAHLIt menu function.
3. Follow the below directions to configure the backlight brightness:



FACTORY RESET

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Navigate to the FACtOrY menu function.
3. Follow the below directions to perform a factory reset and restore the Trek3 to the factory settings:



ADVANCED MENU FUNCTIONS

Clear External Shunt

This function is only available if the BC300 + CommLink external shunt is installed on the caravan battery. This menu item should be used when communication with the external shunt is lost. See FAQs and Troubleshooting for more details.

To clear an external shunt:

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Select the AdvANC menu function.
3. Navigate to the ESHUnt menu function.
4. Follow the below directions to clear the external shunt:



Adjusting Bulk Voltage

The bulk voltage is the maximum voltage at which the BatteryPlus35 will charge the battery. The bulk voltage may be adjusted from 13.6 to 14.8V in steps of 0.1V.

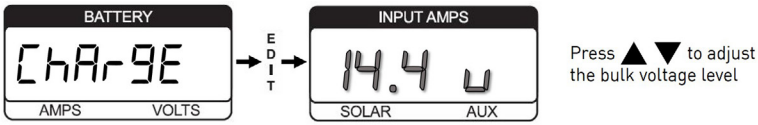
⚠ WARNING

Changing the bulk voltage may result in the battery overcharging and cause damage to the battery and in extreme cases may also cause personal harm.

If you are unsure, DO NOT change the default values.

To adjust bulk voltage:

1. Enter Set-Up mode by holding the HOME button down until SEt UP is seen on the Battery display.
2. Select the AdvANC menu function.
3. Navigate to the ChAr-SE menu function.
4. Follow the below directions to adjust bulk voltage:



SERVICING

Do not attempt to service the Trek3 yourself, OR dismantle, modify or repair the Trek3 yourself; this will void your warranty. If your Trek3 requires servicing, please consult your BMPRO dealer or visit **teambmpro.com** for assistance.

FAQS AND TROUBLESHOOTING

Need more help troubleshooting your Trek3?

Contact our customer service team online at **teambmpro.com/technical-support**

Why has the Trek3 screen turned off?

The Trek3 receives power to run the monitor from the BatteryPlus35. If the BatteryPlus35 shuts power to the monitor, the Trek3 screen will turn off. The BatteryPlus35 will shut power to the Trek3 if:

1. The load isolation switch connected to the BatteryPlus35 has been activated. This turns off power to the data cable connecting the Trek3 and BatteryPlus35.
   Check that the switch has not been activated.
2. The BatteryPlus35 has entered Storage Mode and to conserve remaining battery voltage will disable power to the Trek3.
   To re-power the Trek3, plug the BatteryPlus35 to a power source and begin battery charging. When the battery is sufficiently charged, the BatteryPlus35 will enable power to the Trek3.

Why are the battery volts and amp flashing on the Trek3?

Battery volts and amps will flash on the Trek3 if a BC300 + CommLink external shunt has been installed and communication with the shunt has been lost.

Use the advanced menu function *ESHUnt* to clear the external shunt from memory and re-establish communication with the BC300 + CommLink.

For more information, refer to the section **Advanced Menu Functions**.

I have water tanks, but they are not showing up on my Trek3?

If your Trek3 is connected to the OdysseyLink105, then the water tanks also need to be connected to the OdysseyLink105 for them to show up.

SPECIFICATIONS

TREK3	
Input Voltage Range	8-15V
Battery Drain	< 21mA with backlight off
Ambient Temperature	0-50°C
Dimensions	164 x 108 x 22mm

WARRANTY TERMS AND CONDITIONS

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is provided by BMPRO Pty Ltd (59 646 354 127) ("BMPRO") for its products. Warranty benefits are applied along with any rights and remedies required by Australian State and Federal legislation that cannot be excluded. No part of this warranty excludes, restricts or modifies any State or Federal legislation relating to the supply of goods and services which cannot be excluded, restricted or modified.

WARRANTY

BMPRO warrants that the product will be free from any faults in materials and workmanship beginning from the original date of purchase under standard application, installation, use and service conditions, subject to the exclusions and limitations detailed below. The warranty period of the product is two years.

If, before the warranty period has ended, a fault occurs with the product and BMPRO finds the product is defective in materials or workmanship, BMPRO at its discretion will subject to further rights accorded by the Australian Consumer Law to either:

- Repair the defective product
- Replace the defective product
- Provide a refund to the purchaser for the price paid at purchase for the defective product.

WARRANTY CLAIMS

Refer to your manual before using the product. Most BMPRO products are designed to be installed by a suitably qualified installer. The products should be carefully inspected by you or your installer before installation for any visible manufacturing faults. If a product has been installed incorrectly, BMPRO accepts no responsibility on top of our consumer guarantee obligations.

1. If a fault covered by warranty occurs, the purchaser must either contact the dealer where the product was purchased within 7 days, or BMPRO at the contact details listed.
2. All warranty claims must include: (a) proof of purchase of the product; (b) complete details of the alleged fault; (c) any relevant documentation related to the fault (such as photographs or maintenance records); (d) return material authorisation (RMA) number.
3. The product must be made available to BMPRO or its authorised installer for inspection and testing within 14 days of contacting BMPRO or the dealer.
4. The reasonable cost of delivery and installation of any products or components of products that have been repaired or replaced to the place of purchase notified to BMPRO is covered by the warranty provided by BMPRO, along with the reasonable costs of removal and return of any products determined by BMPRO to be defective.
5. If, on return to BMPRO or on investigation by BMRPO, inspection and testing determines there is no fault in the product, the purchaser must pay BMPRO's reasonable costs of testing and investigating the product, as well as transportation and shipping costs.

REGISTER A WARRANTY OR REPAIR WITH BMPRO

To register a warranty or repair with BMPRO:

1. Lodge a support request via teambmpro.com/technical-support or email customerservice@teambmpro.com
2. If agreed with the BMPRO Product Specialist team, register a warranty claim or repair via teambmpro.com/warranty-claim or email customerservice@teambmpro.com to obtain a Return Material Authorisation (RMA) number.
3. Package and send the product to the BMPRO Warranty Department. The BMPRO Product Specialist team will advise you where to send the product. Please mark RMA details on the outside of the packaging.
4. Ensure your package also includes a copy of the proof of purchase, a complete description of the fault and your contact details including phone number and return address.

EXCLUSIONS

This warranty will not be applicable where: (a) the product has been altered, modified or repaired by someone other than BMPRO, an authorised installer or a qualified auto electrician; (b) the product has not been installed properly by either the user or manufacturer; (c) BMPRO cannot establish a fault in the product after inspection and testing; (d) the product has been used for purposes other than that for which it was designed; (e) the fault in the product has occurred due to a failure by the purchaser to ensure proper use and maintenance of the product according to BMPRO's instructions, recommendations and specifications (including maintenance); (f) the product has been subjected to abnormal conditions, such as environmental, temperature, water, fire, humidity, pressure, stress or similar; (g) the fault has been caused by abuse, misuse, neglect or accident; (h) the fault has been caused by a power surge or other kind of fault in the supply of electricity; (i) unauthorised parts or accessories have been used on or in relation to the product; (j) the appearance of the Product has deteriorated; or (k) the fault is a result of common wear & tear.

LIMITATIONS

No express warranties or representations are made by BMPRO other than what is set out in this warranty. The absolute limit of BMPRO's liability under this express warranty is the repair or replacement of the product or part of the product.

CONTACT

BMPRO's contact details for warranty claims are:

Phone: (03) 9763 0962
Email: **customerservice@teambmpro.com**

Warranty Claim and Product Repair Form:
https://teambmpro.com/warranty-claim/

Registering your BMPRO product is an important step to ensure that you receive all the benefits you are entitled to.

Please complete the online registration form at **https://teambmpro.com/product-registration/** for your new product today.

LIMITED WARRANTY TERMS AND CONDITIONS (USA)

Registering your BMPRO product is an important step to ensure that you receive all the benefits you are entitled to. Please visit **teambmpro.com** to complete the online registration form for your new product today.

WHAT THIS LIMITED WARRANTY COVERS

This warranty covers any defect or malfunction in your BMPRO product. Under this warranty you are entitled to have such goods replaced, repaired or refunded.

WHAT THIS LIMITED WARRANTY DOES NOT COVER

This warranty does not extend to product failures or defects caused by, or associated with, but not limited to:

- Failure to install or maintain correctly, unsuitable physical or operating environment, accident, acts of God, hazard, misuse, unauthorized repair, modification or alteration, natural disaster, corrosive environment, insect or vermin infestation and failure to comply with any additional instructions supplied with the product.
- BMPRO may seek reimbursement of any costs incurred when a product is found to be in proper working order or damaged as a result of any of the warranty exclusions listed above.
- BMPRO will not be liable for any costs, charges or expenses incurred in the process of returning a product to initiate a warranty claim.

HOW LONG THE WARRANTY LASTS

BMPRO warrants products against defects for a period of two years, commencing from the original date of purchase.

CLAIMS PROCESS

Proof of purchase is required before the product can be deemed to be within the warranty period.

To enquire or make a claim under this warranty, please follow these steps:

A. Prior to returning a BMPRO product, please email **service@teambmpro.com** to obtain a Return Material Authorisation (RMA) number.

B. Package and send the product to:

BMPRO WARRANTY DEPARTMENT
UNIT 1 821 E WINDSOR AVE
ELKHART IN 46514

Please mark RMA details on the outside of the packaging.

C. Please ensure the package also includes: a copy of the proof of purchase, a detailed description of the fault and your contact details including phone number and return address.

HOW STATE LAW APPLIES

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

COMPLIANCE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Any changes or modifications not expressly approved by BMPRO could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna,
- Increase the separation between the equipment and receiver,
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected,
- Consult the dealer or an experienced radio/TV technician for help.

POWERING YOUR ADVENTURES.

BMPRO
TEAM BMPRO .COM
BMPRO
customerservice@teambmpro.com
teambmpro.com