

ENGLISH

Pre-RMA testing BMV Battery Monitors



6. Pre-RMA test form - BMV battery monitors

1. General

Product, system and fault information		
Date		
Model Number		
Serial number		
Date of installation (if known)		
Date of failure (if known)		
Battery type, brand name and overall capacity (if known)		

2. Initial check

Initial check	
Deep the physic have mechanical water or correction damage?	Yes, no warranty; replace the shunt.
Dues the shuft have mechanical, water or conosion damage?	No.
Deve the shorthous demonstration deviced even store 2	Yes, no warranty; replace the shunt.
	No.
Does the shunt board have mechanical, water or corrosion damage?	Yes, no warranty; replace the shunt board.
	No.
Does the shunt board have damage to its electrical connectors?	Yes, no warranty; replace the shunt board.
	No.
Is the shunt board securely fastened to the shunt?	Yes.
	No, tighten both screws.
Does the head unit have mechanical, water or corrosion damage?	Yes, no warranty; replace the head unit.
	No.
Does the head unit have damage to any of its electrical connectors?	Yes, no warranty; replace the head unit.
	No.
Does the head unit have burn marks or melting marks on its housing, or	Yes.
smell burned?	No.
Remove the fuse from the red power cable and test the fuse for continuity using a digital multimeter. In the case of a BMV 702 or 712	Yes, no warranty; replace the fuse.
repeat this test for the fuse in the other cable.	No.
Test the red cable(s) for continuity using a multimeter. And inspect the cable(s) for damage. Is there an issue with the cable(s)?	Yes, no warranty; replace the cable(s).
	No.
Test the six strands in the RJ12 data cable for continuity using a cable tester and inspect the cable terminals for damage. Is there an issue with	Yes, no warranty; replace the RJ12 cable.
the RJ12 Cable?	No.

3. First power up

Power the unit up and check		
 Connect the battery monitor to a 12V power supply or a 12V battery: Connect the negative to the "battery" side of the shunt. Connect the positive to the B1 connector on the shunt. 		Yes, go to step 4.
Connect the BMV head unit via an RJ12 cable to the shunt. Does the battery monitor power up?		No.
		Yes short circuit in the head unit: lodge
		a warranty claim.
Is there a DC short circuit? And if so, determine by process of elimination if the problem is caused by the head unit or the shunt board?		Yes, short circuit in the shunt board; lodge a warranty claim.
		No.
By process of elimination, determine if the reason the battery monitor is	of elimination, determine if the reason the battery monitor is lodge a warranty claim.	The head unit causes the problem; lodge a warranty claim.
not powering up is caused by the head unit or by the shunt board?		The shunt board causes the problem; lodge a warranty claim.

4. Bluetooth

Bluetooth check		
le the product a "Smart" product i.e. does it have built in Plusteeth?	□ Yes.	Yes.
is the product a "Smart" product, i.e., does it have built-in Bidetooting		No, go to step 5.
Is Bluetooth active, i.e., do you see the unit listed in the device list of the VictronConnect app?		Yes, go to step 5.
		No.
If Bluetooth is not active, it is unlikely to be a faulty Bluetooth module.		Yes an to step 5
To re-activate Bluetooth, consult the product manual		
Is Pluetooth active new?		No.
If Bluetooth is still not active, rule out the following:		
 Are there problems with your phone or tablet? 		
Are you within Bluetooth range?		
Only one phone or tablet can connect via Bluetooth at a time: is		Yes.
erhaps another phone or tablet already connected?	No, lodge a warranty claim.	
 Consult the product manual and the VictronConnect manual to try to resolve the Bluetooth issue. 		
Is Bluetooth active now?		

5. Firmware and settings

Update the firmware and reset the settings to default	
Connect via an interface (or Bluetooth) to the VictronConnect ann and	Yes.
navigate to the unit. Is this possible?	No, not possible; lodge a warranty claim.

Update the firmware and reset the settings to default	
 Check if the firmware is up to date. If the firmware is not up to date, update the firmware to the most recent version using the VictronConnect app: Go to the VictronConnect settings page. On the settings page, click on the "3 dots" symbol in the top right-hand corner. 	 Yes, the firmware has been updated. Yes, the firmware was already up to date. No, not possible to update the firmware.
On the product info page, check and/or update the firmware.	
Save the unit's settings. File the settings under its serial number and keep the file on record for future reference. To save the settings:Go to the VictronConnect settings page.On the settings page, click on the "disk" symbol at the top.	 Yes, the settings file has been saved. No, not possible to save the settings.
 Reset all settings to default: Go to the VictronConnect settings page. On the settings page, click on the "3 dots" symbol in the top right-hand corner of the page and select "Reset to defaults". 	 Yes, the settings are set to default. No, not possible to set the settings to default.
Does the VictronConnect app display any error codes? If so, try to resolve the errors by consulting the product manual. Did it get resolved?	 No errors, go to 6. There were errors, but they were resolved. There were errors, but they were not resolved.
Write down the error number and name.	Error number: Error name:

6. Functionality

Battery monitor functionality check	
Measure the battery DC voltage. Compare this to the voltage indicated	Yes.
the same (a deviation of up to 1% is allowed)?	No, lodge warranty claim.
Connect a DC load or charger of approximately 50A to the load side of the BMV shunt. Measure the charge current with a DC current clamp.	Yes.
Is the current the same as is indicated in the VictronConnect app (a deviation of up to 1% is allowed)?	No, lodge warranty claim.
Leave the DC charger or load connected for some time, is the "state of charge" (SoC) reading slowly changing?	Yes.
	No, lodge warranty claim.
Are all display segments functional and legible?	Yes.
	No, lodge warranty claim.
Is the display backlight functional? The backlight should turn on as soon as a button is pressed.	Yes.
<u>Note:</u> The display backlight can also have been turned off in the settings (setting #50). See the product manual for more information on this.	No, lodge warranty claim.

7. Remarks

Provide additional fault information or add issues not already covered in earlier questions

8. RMA lodgement

	□ Warranty claim.
RMA type:	 Non-warranty repair or replacement request.
RMA lodgement date	
Victron Energy RMA number	/.
Your reference number	
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