



BlackBox®

Innovations



PLEASE READ & SAVE THESE INSTRUCTIONS

VT-101 INSTRUCTION MANUAL

Verification tool for use with:

EVEMS240-100/3R, EVEMS240-200/3R, EVEMS240-100-DUO/3R, EVEMS240-200-DUO/3R, EVEMS240-240-200-90A/3R, EVEMS240-HUB(All Models).

Usage Instructions:

The device must be turned on and the cable plugged into it before plugging the other end into the energy manager. To start testing unplug one of the current monitoring devices from the energy manager's control board and plug the tool into that location. When switched on, the display will read the percentage of load the tool is simulating to the control device. Rotating the adjustment nob clockwise will simulate more current and counter-clockwise, less current. Put the Energy Manager into test mode by rotating the time adjustment dial on the energy manager control board all the way counter-clockwise. This must be adjusted back to its original position after testing to restore the normal operation of the Energy Manager. The device automatically detects which **BlackBox** device model it is connected to. This tool is for verification purposes only as calibration is done in the factory before energy managers are shipped.

EVEMS240-100 SERIES		EVEMS240-200 SERIES		EVEMS240-400 SERIES		EVEMS240-600 SERIES	
READING %	AMPS	READING %	AMPS	READING %	AMPS	READING %	AMPS
100	100	100	200	100	400	100	600
90	90	90	180	90	360	90	540
80	80	80	160	80	320	80	480
70	70	70	140	70	280	70	420
60	60	60	120	60	240	60	360
50	50	50	100	50	200	50	300
40	40	40	80	40	160	40	240
30	30	30	60	30	120	30	180
10	10	10	20	10	40	10	60
0	0	0	0	0	0	0	0

Charging:

Always keep the device in a healthy state of charge, especially when being stored in cold temperatures. Charge verification tool by plugging the micro-USB cable into the appropriate connection point on the device, the battery switch should be in the ON position during charging. Switch the tool OFF when storing the device or while not in use. The LED on the front labeled "BATTERY" will be green when the switch is ON indicating the battery is fully charged. This LED will progressively change from green to red. Red indicates the device battery is depleted and should be charged.

INFORMATION

This document contains important instructions which must be followed during the installation, and maintenance of this device.

Notes

After installation verify that the device is securely attached to an adequate structure in a well-ventilated location.

It is the installer's responsibility to verify that the electric power source is adequate for the use of the device.

Do not use any solvents to clean this device.

Do not paint or apply exterior finishing to this device.

Do not use the energy management system with end devices that require constant power.

Cautions

The installation of the device must be done to the latest electrical code requirements and with the consultation of, and according to the manufacturer's specification and guidelines of both the Electrical Vehicle (EV) and the Charging Station.

Warning

Read all documentation provided by the device manufacturer before using this product and follow the installation and setup procedures.

Do not use this device if it is damaged or is producing excessive heat.

Always disconnect any

and all sources of power before starting work.

Do not modify, repair, or dismantle the device.

Never introduce water or any other liquids to the area around or on this device.

Do not install the device near flammable materials, explosives or fuels, chemical products, and vapors.

Do not install this device in a hazardous or wet environment or location

Disconnect this device immediately if defective or damaged in any way and contact the manufacturer.

Any improper use of the device could result in serious injuries, death, or damage to property.

Any improper use of the device can cause damage which will void the warranty.

Never use the device above or below the temperature range of 34°F to 104°F (1°C to 40°C). The devices must be always kept free of frost and water vapor.

Feedback

We are always happy to hear your feedback and we look forward to hearing from you.

Please email all comments to customerservice@blackboxelectrical.com.

You can also contact us by clicking on the message us button on our website at www.blackboxinnovations.com.

Limited warranty

1. **BlackBox** Innovations Inc. warrants this device against any defects for a period of one year from the date of shipping. The warranty is limited to the components and equipment supplied by Black Box Innovations Inc.

2. **BlackBox** Innovations Inc. may undertake repair or replacement, at the site or the manufacturing location, at its option, of the defective material only after an evaluation has been made by its representative.

3. If, in the opinion of Black Box Innovations Inc. installation has been done incorrectly, or the device is used inappropriately, or repairs have been done by unauthorized personnel other than representatives of Black Box Innovations Inc., the warranty will be automatically void.

4. **BlackBox** Innovations Inc. will not be held liable for damages or delays and will not be required to pay the transport cost of the charge controller claimed to be defective.

5. Prior written consent must be made by Black Box Innovations Inc. before repairs, replacement, modifications, or compensation is to be made.

6. **BlackBox** Innovations Inc. shall not be liable for any indirect damages or delays

caused by inadequate workmanship, or materials on devices installed. This also applies if the installations are not made in accordance with the manufacturer's instruction, local electrical codes, as well as specifications of devices powered through this device.

7. **BlackBox** Innovations Inc. shall not be liable for any direct or indirect damages or delays for any devices that are connected to this device that can not tolerate having supplied power switched off for any time period specified by the device or when the device is in need of repair or maintenance.

8. Any repairs made at the Black Box Innovations Inc. factory are warrantied for 30 days from the date of repairs.

10. Any components supplied for repairs are warrantied for the remaining of the warranty on the original product or 90 days whichever is longer.