

Installation Guide

A proper installation is required for the Xantrex Battery Monitor to operate correctly. Please read the instructions carefully to avoid battery monitor malfunctioning and/or fire hazards.

Besides the standard supplied Xantrex Battery Monitor and the 500 A/50 mV current shunt, you will need a two-wire twisted pair flexible connection cable (minimum AWG 24/0.2 mm²) and a three-wire flexible connection cable (minimum AWG 21/0.4 mm²). Two isolated inline fuse holders with 1 amp slow blow fuses and some crimp terminals are also required. All these items are available in the Xantrex Battery Monitor connection kits.

Installation procedure

1. Determine the location of the battery monitor. Use the enclosed mould sticker to determine the position of the different holes. The hole diameter for the battery monitor body must be 2 inches (52 mm). For the four mounting screws use 1/8 inch (3.2 mm) holes for the metric screws or 1/16 inch (2mm) holes for the self-tapping screws. When the holes are made, do not forget to remove the mould sticker. Due to increased errors in readout of voltage and current, do not position the battery monitor further than 98 feet (30 m) away from the battery system.
2. Estimate the required cable length between battery monitor and battery system. When cutting the connection cables always leave some excess cable length of approximately 20 inches (50 cm) on both sides of the cables. When routing the cable from monitor to battery system, avoid running it along with main cables over long distances or near large relays or generator/motors.
3. Connect the battery monitor to the battery system. Make absolutely sure that the two 1 amp fuses are removed from the inline fuseholders before connecting the wires to the battery. Please follow the wiring diagram (Figure 1) and the corresponding notes very carefully. Improper connection may cause battery monitor malfunctioning and/or fire hazards. The thick lines in the wiring diagram represent the main current path cables. These cables must be of a heavy duty type able to carry full load current drawn from the battery. The five wires going to the battery monitor unit can be connected to shunt and battery using universal crimp terminals.

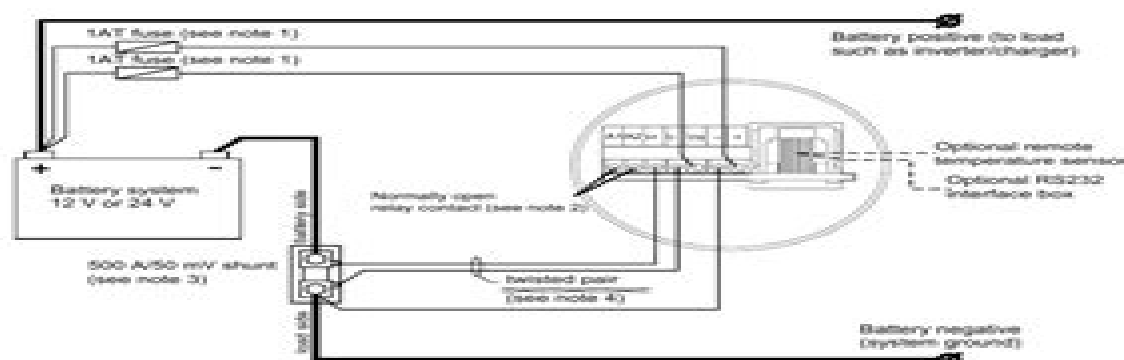


Figure 1: Wiring Diagram

- Note 1:** Put an inline fuseholder in series with the battery monitor positive (+) supply wire and the battery monitor "Vs" positive battery sense wire. For optimal safety place these fuseholders as close as possible to the battery system. When installing the battery monitor make sure both fuses are not yet installed in the fuseholders!
- Note 2:** Terminals A1 and A2 are internally connected to the potential free (normally open) contact of the alarm relay. This contact can be used to control external equipment like a battery charger or a generator. The maximum switching voltage is 60 V and the maximum switching current is 1 amp.
- Note 3:** To avoid large current measurement errors, the connections to the shunt are very important. The shunt has two sides named "battery side" and "load side." The large "battery side" shunt screw is for the heavy duty cable to the negative battery terminal only. No other wires are allowed on this terminal. The battery monitor "I-" wire is the only wire that may be connected to the small "battery side" shunt screw. The large "load side" screw holds the heavy duty system ground cable, as well as the battery monitor negative (-) supply wire. The battery monitor "I+" wire is the only wire which may be connected to the small "load side" shunt screw.
- Note 4:** The two "I+" and "I-" current sense wires connected to the small shunt screws must be twisted together in order to minimize electronic interference and ensure accurate readings.

4. After making and checking connections on the battery system side, connect the battery monitor unit to the other side of the cable. When cutting the cable always leave a some excess cable length to enable the battery monitor to be pulled out of the mounting hole afterwards. The wire connections to the battery monitor terminal block must be made according to the diagram at right. Tighten the terminal block screws with a 1/16 inch (2 mm) blade flat screwdriver or a small Phillips head screwdriver. To avoid damage, do not apply too much torque to the small terminal block screws. It is advisable to make a strain relief on the battery monitor cable to avoid mechanical stress on the terminal block. When the battery monitor connections are made and checked, mount the monitor unit into the 2 inch (52 mm) hole from step 1. To avoid damaging the Xantrex Battery Monitor front panel, do not overtighten the four mounting screws. Do not use a power screwdriver for this purpose.



5. Apply power to your Xantrex Battery Monitor monitoring system by inserting the two 1AT fuses into the inline fuse holders. First place the fuse into the "Vs" battery voltage sense wire fuseholder. After that the second fuse can be installed in the positive (+) supply voltage wire fuseholder. Now your Xantrex Battery Monitor will power up, activating the backlight and flashing the battery voltage readout on the display. Note that this status will also be reached when the supply voltage of the battery monitor has reached a too low value ($V_{\text{set}} < 8 \text{ VDC}$), causing the monitor to reset.

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web mesoscopic physics is a subdiscipline of condensed matter physics that deals with materials of an intermediate size these materials range in size between the nanoscale for a quantity of atoms such as a molecule and of materials measuring micrometres 1 the lower limit can also be defined as being the size of individual atoms

rev mod phys 94 045005 2022 mesoscopic physics of - Apr 12 2023

web dec 8 2022 abstract nanomechanics has brought mesoscopic physics into the world of vibrations because nanomechanical systems are small fluctuations are significant the vibrations already become nonlinear for comparatively small amplitudes and new mechanisms of dissipation come into play

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