



Owner's Guide Solar MPPT Remote Panel 710-0010

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Product Name and Part Number

Solar MPPT Remote Panel | 710-0010

Contact Information

Telephone:	+1-800-670-0707/+1-408-987-6030
Email:	customerservice@xantrex.com, http://www.xantrex.com/power-products-support/
Web:	http://www.xantrex.com

IMPORTANT SAFETY INFORMATION

READ AND SAVE THIS OWNER'S GUIDE FOR FUTURE REFERENCE.

Read these instructions carefully and look at the equipment to become familiar with the device before installing, operating, configuring, maintaining, and troubleshooting it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

AGM	Absorbent Glass Mat lead-acid battery
BTS	Battery Temperature Sensor
BMS	Battery Management System
LCD	Liquid Crystal Display
LFP, LiFePO ₄	Lithium-ion Iron Phosphate
MPPT	Maximum Power Point Tracking
PV	Photovoltaic
SOC	State-of-Charge

Table 1 Abbreviations and acronyms

Product Safety Information

- 1. Before using the remote panel, read all instructions and cautionary markings on the remote panel's components, the batteries, and all appropriate sections of this guide.
- 2. Use of accessories not recommended or sold by the manufacturer may result in injury to persons, a risk of electric shock, or a risk of fire.
- 3. The remote panel is designed to be connected to your DC electrical systems. The manufacturer recommends that all wiring be done by a certified PV technician or electrician to ensure adherence to the local and national electrical codes applicable in your jurisdiction.
- 4. To avoid a risk of fire and electric shock, make sure that existing wiring is in good condition and that wire is not undersized. Do not operate the remote panel with damaged or substandard wiring.
- 5. Do not operate the remote panel if it has been damaged in any way.
- 6. This remote panel does not have any user-serviceable parts. Do not disassemble the remote panel except where noted for connecting wiring and cabling. See your warranty for instructions on obtaining service. Attempting to service the remote panel yourself may result in a risk of electrical shock or fire.
- 7. To reduce the risk of electrical shock, disconnect all DC power sources from the remote panel before attempting any maintenance or cleaning or working on any components connected to the remote panel.
- 8. Do not expose the remote panel to rain, snow, or liquids of any type. This product is designed for dry-locations-use only. Damp environments will significantly shorten the life of this product and corrosion caused by dampness will not be covered by the product warranty.
- 9. To reduce the chance of short-circuits, always use insulated tools when installing or working with this equipment.

HAZARDORFIRE, ELECTRICAL SHOCK, EXPLOSION, OR ARC FLASH

This Xantrex SOLAR MPPT Remote Panel Owner's Guide is in addition to, and incorporates by reference, the relevant product manuals for each product in the power system. After reviewing this guide you must read the relevant product manuals. Unless specified, information on safety, specifications, installation, and operation is as shown in the primary documentation received with the product. Ensure you are familiar with that information before proceeding.

Failure to follow these instructions will result in death or serious injury.

ELECTRICAL SHOCK AND FIRE HAZARD

Installation must be done by qualified personnel to ensure compliance with all applicable installation and electrical codes and regulations. Instructions for installing the Xantrex SOLAR MPPT Remote Panel are provided here for use by qualified personnel trained in Recreational Vehicle and Solar power systems.

Failure to follow these instructions will result in death or serious injury.

EQUIPMENT DAMAGE

Do not integrate this remote panel with a residential electrical system.

Failure to follow these instructions can result in injury or equipment damage.

End of Life Disposal

The Xantrex SOLAR MPPT Remote Panel is designed with environmental awareness and sustainability in mind. At the end of its useful life, the remote panel can be decommissioned and disassembled. Components which can be recycled must be recycled and those that cannot be recycled must be disposed of according to local, regional, or national environmental regulations.

Many of the electrical components used in the Xantrex SOLAR MPPT Remote Panel are made of recyclable material like steel, copper, aluminum, and other alloys. These materials can be auctioned off to traditional scrap metal recycling companies who resell reusable scraps.

Electronic equipment such as the circuit boards, connectors, and fuses can be broken down and recycled by specialized recycling companies whose goal is to avoid having these components end up in the landfill.

For more information on disposal, contact Xantrex.

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Materials List

The remote panel base package includes the following items:

- 1 Xantrex SOLAR MPPT Remote Panel
- 2 Xantrex SOLAR MPPT Remote Panel bezel
- 2 Owner's Guide
- 3 Mounting screws (#4 x 3/8" wood screws)





NOTE: If any of the items are missing, contact Xantrex or any authorized Xantrex dealer for replacement. See *Contact Information on page 1*.

Basic Installation Steps

- 1. Prepare the tools for installation.
 - #2 Phillips screwdriver
 - hole saw
 - pencil
 - power drill with bit set (see NOTE)
 - other tools such as wire stripper, cutter, crimper, wrench

Figure 1 Preparing for mounting

- 1 Using the mounting template at the end of this guide, mark the positions of the center hole and the mounting holes on the wall where you plan to mount the remote panel.
- 2 Using a hole saw with a minimum diameter of 3" (76.2mm) and a maximum of 3.5" (88.9mm) and with the center hole marker, cut a circular hole on the wall. Insert the back of the remote panel through the hole.





 Using the provided mounting screws, secure the remote panel on the wall. NOTE: For drilling on hard wood use bit size 1/16 and on soft wood use bit size 3/64
 Attach the bezel to conceal the unit's mounting screws.



1	PV panel	7	Xantrex SOLAR MPPT Remote Panel cable
2	Solar charge controller	8	Pos [+] Battery cable with battery fuse
3	Xantrex SOLAR MPPT Remote Panel	9	Battery
4	DC equipment ground	10	Neg [–] Battery cable
5	Pos [+] PV cable with PV disconnect device	11	DC battery / Chassis ground
6	Neg [–] PV cable	12	Battery temperature sensor (BTS) cable

- 2. Install the power system. **IMPORTANT**: Follow the installation instructions for each component in the power system.
- 3. Mount the remote panel near other controller units in your power system for easy access.
- 4. Connect the cable connector to the port on the back of the remote panel.
- 5. Route the remote panel cable from its mounting location to the charge controller unit.
- 6. Connect the cable connector to the remote panel port on the charge controller unit.

Unit	t Features	
Ø		-1
Menu Up Set Power		
1	LCD display	
2	MENU button	
3	UP / SET button	
4	Power [Standby] button	
5	Remote port	
6	Mounting holes	
L	1	

Remote Panel LCD Display and Function Buttons



Button	Action	Description	
Menu	Short press	 Allows you to: browse devices such as BAT1, PV, and BAT2 browse settings for each device show automatic status display setting 	

Button	Action	Description	
Up / Set	Short press	Allows you to: • browse PV Array settings • browse BAT1 settings • browse BAT2 settings	
	Long press (5 sec)	 configure the temperature unit configure the battery type en/disable automatic status display 	
Power	Short press	Turn on the Remote panel screen	
G	Long press (5 sec)	Turn off the Remote panel screen	

Status Icons

lcon	Description	lcon	Description
	BAT1 SOC 0~12%	Ū	BAT2 SOC 0~12%
	BAT1 SOC 13~35%	ļ	BAT2 SOC 13~35%
	BAT1 SOC 36~61%	ļ	BAT2 SOC 36~61%
	BAT1 SOC 62~86%		BAT2 SOC 62~86%
	BAT1 SOC 87~100%		BAT2 SOC 87~100%
	BAT1 Charging	>>>	BAT2 Charging
	Daytime		Nighttime
-	Display BAT1 parameters	+	Display BAT2 parameters
œ₽₽	PV Panel	♥	Display PV parameters

lcon	Description	lcon	Description
J	BAT1 temperature	Batt Type	Battery type
0	Settings (Parameters)	Min	Minimum voltage
¢	Auto screen cycle	Мах	Maximum voltage
	Event		

Event Indicators

NOTE: When an event is detected the LED indicators flash and the individual icons on the LCD Display also flash.

LCD Icon/s	Event Description
	Over-charging event on BAT1
	Over-charging event on BAT2
	BAT1 discharged
Δ 0	BAT2 discharged
A 8	Over-temperature event on BAT1
	BAT1 charging voltage outside of range
Δ Ū	BAT2 charging voltage outside of range
	BAT1 and/or BAT2 batteries are not connected. PV is connected.

Operation Using the Remote Panel

To browse different devices and their settings:



1. Short press

Menu



to turn on the panel.

2. Press

repeatedly to display each device screen.

Power (ሀ

3. Short press

to turn off the panel screen.

NOTE: Pressing this button does not turn off the solar charger unit, only the display panel screen.

Table 2 Device screen

LCD Icon	Device	
AULo	Remote panel's automatic status display	
•	BAT1 settings	
➡	PV array settings	
+	BAT2 settings	











Specifications

NOTE: Specifications are subject to change without prior notice.

Specifications	Solar MPPT Remote Panel
Part number	710-0010
Power consumption	10mA/5VDC
Minimum power consumption	3mA
Operating temperature	-20-70 °C (-4-158 °F)
Storage temperature	-20-70 °C (-4-158 °F)
IP protection	IP20
Unit weight	110 g (0.25 lbs.)
Physical dimensions	98 × 98 mm (3.8 × 3.8 inches)

Mounting Template

NOTE: You may tear the next page.



NOTE: Mark the positions of the center hole and the mounting holes on the wallwhere you plan to mount the remote panel. Use a hole saw with a minimum diameter of 3" (76.2mm) and a maximum of 3.5" (88.9mm) to cut a circular hole on the wall.

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+1-800-670-0707

+1-408-987-6030



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