UNITECK Unisensor Remote Sensor for UNIMPPT Charge Regulator Instruction Manual

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Dear customers, thank you very much for purchasing one of our Uniteck products. Please read carefully and thoroughly all the instructions before using the product

Contents

DESCRIPTION

The intern battery voltage varies according to ambient temperature. (30mV per degree).

To deliver the best voltage and avoid overloading or under loading of the battery, UNIMPPT is originally equipped with a temperature sensor integrated on the regulator. With this, UNIMPPT measures the ambient temperature to adjust charging voltage according to battery manufacturer's recommendations. (30mV in 12V and 60mV in 24V per °C under and over the reference temperature at 25°C).

However, when there is a difference of temperature between the regulator environment and the battery (ex. regulator located in a technical room and battery stocked in a block), it is recommended to use UNISENSOR remote sensor. In this case, UNIMPPT will use as the temperature reference, the temperature measured by the remote sensor.

Also, UNISENSOR optimizes voltage measurement for more precision during the charge. Thanks to the UNISENSOR, the voltage measurement doesn't do that anymore at across the regulator, but directly on the battery to avoid voltage drops cause by wiring. In order to measure and control the charge more precisely.

INSTALLATION AND CONNECTION

- Fix the sensor thanks 2 bolts or double-sided sticker to the nearest of the battery.

  Warning: Do not theard it in the battery
- Connect 2 measure wires on UNISENSOR. 1 and 2

- Ensure that green light is correctly turned on. If the yellow light is turned on, a polarity reversal occare. Modify wiring until flash green turn on.
- Connect cable between the regulator and the sensor. 3 and 4

CAUTION

When connecting, the polarities must be observed.
Reverse polarity can cause irreversible damage to your UNIMPPT charge controller.
Damage not covered by warranty.

1. Connect the sensor to the battery respecting the polarities
2. Check that the green light on the sensor is on. In this case, you can continue the installation.
   If the yellow light is on, check and change the wiring until the green light comes on

REMOTE VOLTAGE AND TEMPERATURE SENSOR

SYSTÈME	**UNISENSOR**
Battery voltage	12/24V
Self-consumption	1 mA
Protection rating	IP X 0
Maximum cable section	1,5 mm²
Altitude max	2500 m
MECHANICAL CHARACTERISTICS	
Dimensions (L x H x W)	52 x 37 x 25
Weight (without cables)	25g
Operating temperature	-20°C à + 60°C
Storage temperature	-30°C à +80°C

Documents / Resources

	UNITECK UNITECK Unisensor Remote Sensor for UNIMPPT Charge Regulator [pdf] Instruction Manual UNITECK Unisensor Remote Sensor for UNIMPPT Charge Regulator, UNITECK, Unisensor Remote Sensor for UNIMPPT Charge Regulator, Sensor for UNIMPPT Charge Regulator, UNIMPPT Charge Regulator, Charge Regulator, Regulator

References

- Fabricant Français
- User Manual