Charles. Marine Group

LT–RMTEMP01–1   Issue 1 Print 1, December 2007

Remote Temperature Sensor Installation Instructions

GENERAL DESCRIPTION

This document describes how to install the Charles Remote Temperature Sensor to be used with a compatible Charles unit.

FAILURE TO FOLLOW THE PROPER INSTALLATION INSTRUCTIONS WILL VOID THE MANUFACTURER'S WARRANTY!

FEATURES

- Accurate digital temperature readings
- Waterproof temperature sensor
- Easy to install
- Electrically isolated
- PVC jacketed cable – 25 feet
- Requires compatible Charles unit.

INSTALLATION

Follow the instructions provided for proper installation of the Remote Temperature Sensor. Reference the Owner's Manual of the Charles unit being connected to for additional information.

The Remote temperature sensor must be connected to a Charles compatible unit.

! DANGER !

Disconnect all live power BEFORE working on electrical equipment!

Step	Action
1.	Place the temperature sensing ring lug over the battery terminal screw. The temperature ring lug should be the lug closest to the head of the screw or nut. Since the ring lug is electrically isolated, it may be placed on either the positive or negative lead of the battery.
2.	Connect the red lead to the positive terminal of the temperature sensor input.
3.	Connect the black lead to the negative terminal temperature sensor input.

Note: The temperature sensors wire length may be shortened without affecting operation or accuracy of the temperature sensor.
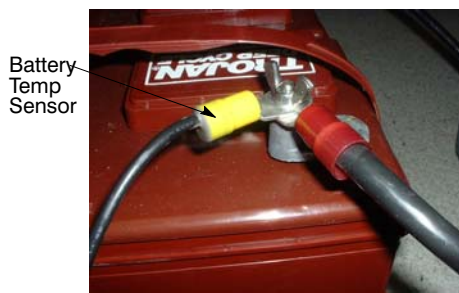

Battery Temp Sensor

Figure 1. External Battery Temp Sensor

SPECIFICATIONS

The specifications of the Remote Temperature sensor are provided in this section.

- Temperature Sensing Range: –55C to +85C (–67F to 257F)
- Waterproof temperature sensor

Mechanical

- Inner diameter of ring terminal: 0.500 inches
- Length of cable supplied: 25 feet +/– 5 inches

Electrical

- Voltage: 5 Volts DC maximum with communications imbedded on power
- Current Draw: 4 ma maximum
- Power Draw: 0.020 watts maximum
- Communication method: compatible with Charles systems as specified on the Charles unit Owner's Manual.

WARRANTY & CUSTOMER SERVICE

Warranty

The CHARLES Marine & Industrial Group warrants the Remote Temperature Sensor will be free from defects in materials and workmanship which cause mechanical failure for one (1) year, as set forth in the Limited Warranty. Notice of any alleged defect in material or workmanship must be provided within thirty (30) days of discovering the problem, and within the warranty period.

Customer Service

For technical assistance or customer service, contact Charles Marine Products at:

Charles
Marine & Industrial Group
400 S.E. 8th Street
Casey, Illinois 62420–2054
800–830–6523 (Toll Free)
217–932–2317 (Voice)
217–932–2473 (FAX)

Call to obtain a Returned Materials Authorization

(RMA) number prior to returning a unit to

Charles.

Most repaired or replaced units will be returned within 30 days, depending on the product type and availability of repair parts. Repaired units are warranted for either 90 days from the date of repair or for the remaining unexpired portion of the original warranty, whichever is longer.

Correspondence can be sent to Corporate Headquarters via the address below:

Note: Do not return the unit to this address.

Charles
Marine & Industrial Group
5600 Apollo Drive
Rolling Meadows, IL 60008-4049
U.S.A.
847–806–6300
www.charlesindustries.com