



WIRELESS

POWER LOGGER Wi-Z

Performance Indicator and Event Logger

Quick Installation Guide

S47-0214 Revised 6/30/2015

Safety Instructions

WARNING

BATTERIES CONTAIN LETHAL VOLTAGE LEVELS. INSTALLATION AND SERVICING MUST BE PERFORMED BY QUALIFIED PERSONNEL.

IMPORTANT: SAVE THESE INSTRUCTIONS!

READ AND FOLLOW ALL INSTRUCTIONS BEFORE INSTALLING, OPERATING, OR SERVICING MODULE. ANY DEVIATION CAN CAUSE SERIOUS AND PERMANENT DAMAGE. FAILURE TO FOLLOW THE INSTRUCTIONS WILL VOID THE WARRANTY.

Do not touch un-insulated parts of the output connector or battery terminals. A possibility of serious electrical shock exists.

Never smoke, use an open flame, or create sparks in the vicinity of the battery. Ventilate well when the battery is in an enclosed space.

Lead-acid batteries contain sulfuric acid, which is caustic and can cause chemical burns to the skin. Refer to the battery manufacturer's instructions for safe handling of batteries. Use proper personal protective equipment. Do not get in eyes, on skin, or on clothing. In cases of contact with eyes, flush immediately with clean water for 15 minutes. Seek medical attention immediately.

Care should be observed when using tools on or around the battery to avoid shorting the battery. Do not lay tools on top of the battery.

FERRO MAGNETICS CORPORATION

POWER LOGGER Wi-Z WARRANTY - 1 Year

This Warranty Agreement entered into between Ferro Magnetics Corporation, "Ferro", and the Original End User in respect to Ferro Magnetics battery charger control / retrofit kits for industrial electric truck charger usage.

- 1.0 **GENERAL** Ferro Magnetics Corporation (hereinafter called "Ferro") warrants that each **POWER LOGGER Wi-Z** supplied is of good workmanship and is free from any inherent mechanical defects, provided:
 - 1.1 The product is installed and operated in accordance with generally accepted industrial standards and in accordance with the printed instructions supplied with the product.
 - 1.2 The product is used under conditions for which it was designed and is not subject to misuse, negligence or accident.
 - 1.3 The product receives proper care, protection, and maintenance under supervision of competent personnel.
 - 1.4 The product is used within the published performance rating for the application involved.
 - 1.5 The product is used exclusively by the original user and by no other persons.
- 2.0 **PERSONS COVERED: POWER LOGGER Wi-Z** is warranted for 1 year from the date of shipment by Ferro to the original user.
 - 2.1 Primary switch contacts, and fuses, are not warranted unless found to be defective prior to use.
- 3.0 **LIMITATION OF REMEDY** Any claimed defect is subject to Ferro's inspection and judgment, after the defective product has been returned by the original user at its expense to Ferro Magnetics Corporation, St. Louis, MO.
 - 3.1 Ferro's liability is limited to the repair of the defect or, at Ferro's option, the replacement of the defective parts. Ferro will bear costs of parts replacement only; no labor or other services will be provided by Ferro. Ferro shall not be obligated to reimburse the original user or any other person for any work performed.
 - 3.2 Replacement and exchange parts will be warranted for the remainder of the original warranty period, or for a period of thirty (30) days, whichever is greater.
 - 3.3 Ferro shall not be liable for direct or indirect, special or consequential damages in excess of such repair or replacement. In no event shall the original user be entitled to recover for contingent expenses resulting from, but not limited to, telephone calls, telegrams, travel expenses, lodging, duties and taxes, labor, rental of replacement equipment, loss of business or profits or other commercial losses.
- 4.0 **USE OF DEFECTIVE PRODUCT** Continued use of a defective control after discovery of a defect may void all warranties.
- 5.0 **REPAIRED EQUIPMENT** Except as authorized in writing, this warranty does not cover any controls that has been repaired by any party other than Ferro Magnetics.
- 6.0 **MODIFIED EQUIPMENT** This warranty is void if this equipment has been modified without written permission from Ferro Magnetics.

EXCEPT AS STATED ABOVE, ALL OTHER WARRANTIES AND CONDITIONS, EITHER EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED AND ORIGINAL USER ASSUMES ALL RISK AND LIABILITY RESULTING FROM USE OF THE PRODUCT. FERRO NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR FERRO ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OR USE OF THE PRODUCT AND THERE ARE NO ORAL AGREEMENTS OR WARRANTIES COLLATERAL TO OR AFFECTING THIS WRITTEN WARRANTY.

Package Contents

POWER LOGGER Wi-Z package contains the following items:

- POWER LOGGER Wi-Z
- (4) ¼-20 x 2" nylon bolts
- (4) ½-20 nylon nuts
- Connector strap
- Quick Installation Instructions



Figure 1 Power Logger Package Contents

Introduction:

This Quick Installation Guide is for the installation of the Power Logger only. See the Tobi PI Wi-Z and Power Logger Software User Guide for instructions on configuring the Power Logger and uploading events.

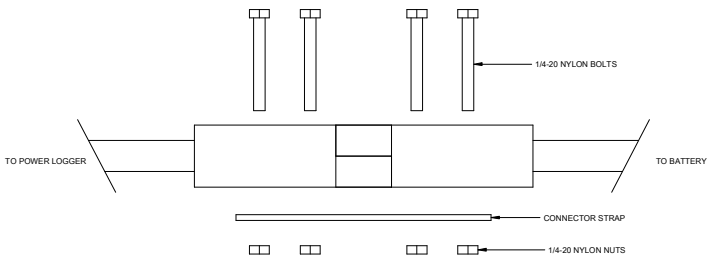
Installation

The Power Logger Wi-Z is designed to plug directly into the battery being monitored and the charger or truck. There are standard SB350 connectors on either end. The Power Logger Wi-Z ships standard with gray connectors installed (038-489) but may also be ordered with black connectors (038-488). When connecting the Power Logger Wi-Z, make sure that it is connected in the proper orientation. The orientation is indicated on the Power Logger Wi-Z:



Connecting the Power Logger Wi-Z in the reverse orientation will result in reversing charge and discharge events.

Included with the Power Logger Wi-Z is a connector strap and nylon hardware. The strap and hardware should be used to bolt the connectors together on the battery side after plugging in the Power Logger Wi-Z. This will prevent accidental disconnection of the Power Logger Wi-Z from the battery during data collection.



The Power Logger Wi-Z transfers data from the memory to a PC via wireless communication. It operates at 2.4 GHz on 802.15.4 and auto-selects from 16 available channels to set-up a network to communicate with the PC. The Power Logger Wi-Z works independently of other wireless networks in your facility and will not interfere with existing Wi-Fi networks. The rated distance for data transfer is 100 feet from the Power Logger Wi-Z module to the PC. Each Power Logger Wi-Z acts as a wireless router so a daisy-chain effect is possible with multiple Power Logger Wi-Z modules.

The Power Logger Wi-Z has an LED to indicate power. When connected to a battery, the LED should be blinking red.

The mechanical installation of the Power Logger Wi-Z is now complete. You are ready to enter battery data into the system. Please refer to the **Tobi PI Wi-Z and Power Logger Wi-Z Software User Guide** for instructions on initializing your new Power Logger Wi-Z.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions. (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING: To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 20cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operations at closer distances than this are not recommended.

Contains FCC ID: S4GEM35XA



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