



2820 Wilderness Place, Unit C
Boulder, Colorado, 80301
Tel: (303) 443 6611



LEAP WIRELESS SENSOR SYSTEM

User Manual: Wireless Gateway Battery Backup

Document# 53-100187-14

Revision 1.3

Contents

- 1. Connecting the Battery Backup to the Gateway..... 3
 - 1.1 Review the Battery Back-up Instruction Manual.....3
 - 1.2 Running off the Battery Back-Up.....3
 - 1.3 Hardware overview3
 - 1.4 System Set-up.....4
- 2. Technical Support 5

Copyright and Trademarks

No part of this product or related documentation shall be reproduced in any form by any means without prior written authorization of Phase IV Engineering, Incorporated. No part of this document shall be reproduced, stored in a retrieval system, or transmitted by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission from Phase IV Engineering, Incorporated.

Although every precaution has been taken in the preparation of this document, Phase IV Engineering assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein.

Phase IV Engineering assumes no responsibility for any loss or claims by third parties that may arise through the use of this product.

Phase IV Engineering assumes no responsibility for any damage or loss caused by deletion of data as a result of malfunction, repairs, or battery replacement, or power failure.

Phase IV Engineering, Incorporated may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from Phase IV Engineering, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

This manual, its related hardware, software and documentation are subject to change without notice and do not represent a commitment on the part of Phase IV Engineering. Phase IV Engineering reserves the right to make changes in the product design without reservation and without notification to its users.

© 2019 by Phase IV Engineering, Incorporated, 2820 Wilderness Place, Unit C, Boulder, Colorado 80301, USA. All rights reserved.

All brands and product names are trademarks or registered trademarks of their respective owners.

1. Connecting the Battery Backup to the Gateway

1.1 Review the Battery Back-up Instruction Manual

Prior to installing the battery back-up, review the Instruction manual – including the Cautions.

1.2 Running off the Battery Back-Up

The following describes the functionality of the battery back-up system.

- The Leap Gateway will continually run off battery power
- The 120V wall transformer will continually charge the battery.
- When 120V power is lost, the gateway will continue to run off battery power.
- The battery will typically last 2 days in normal use cases.

1.3 Hardware overview



Figure 1: System hardware overview

1.4 System Set-up

This section will go through the step by step instructions for connecting and setting up the battery back up system.

1. Plug in the 12V wall transformer to a standard 120V wall outlet. Plug the barrel jack from the wall transformer into the battery back-up "IN" port.
2. Turn-on the battery pack. The Status light on the battery should come on.
3. The battery charge bar graph should show the battery at greater than 25% capacity. If only the bottom green LED is lit, allow the battery to charge for an hour before proceeding to the next step.
4. Connect the cable as shown. The power light on the back of the gateway should light immediately. See Figure 3.
5. The battery backup is now installed. The battery will provide 17 to 18 hours of backup power to the gateway in the event of a power failure. The USB charger should always remain plugged in and connected to the battery to keep the battery pack fully charged.

Do not use the 5V wall transformer that comes with the gateway. When the installation is complete, the gateway wall transformer will be "extra" and will not be used.

See the photo below:



Figure 3: Connection Overview

2. Technical Support

For more information about our products and services, or for technical assistance:

Visit us at: www.phaseivengr.com
Tel: +(303) 443 6611 (USA – MST 8:00 a.m. to 5:00 p.m., Mon.-Fri.)
E-Mail: support@phaseivengr.com

If you need assistance, please provide the product part number, product serial number, and product version.