

Converting to a Battery Backup System

Introduction

The following document provides instructions for installing a battery backup kit on an AC powered Model 400 Data Dolphin.

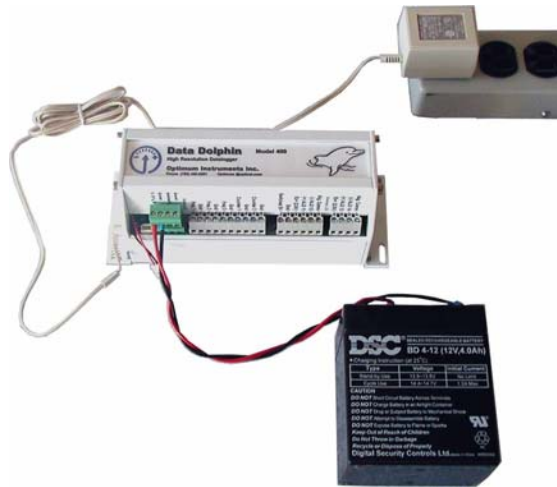


Figure 1: Model 400 with battery backup

Parts Required

- Battery backup kit (12V 200mA center positive AC adaptor, 12V 4Ahr lead acid battery, battery harness, and Model 400 power terminal connector)

Tools Required

- Small slot type screw driver

Procedure

Use the following steps to convert the Model 400 from AC power only to AC power with battery backup.

1. Connect to the Model 400 to a personal computer with a local serial connection. As a precaution, download all data from the Model 400 using the Data Dolphin software. For more information on PC to Model 400 communications and using the Data Dolphin software, consult the Data Dolphin software manual.
2. Unplug the original AC Adaptor from AC power and the Model 400. **DO NOT USE THE ORIGINAL AC ADAPTOR WITH THE BATTERY BACKUP SYSTEM!!** The non-battery AC adaptor has a higher current output which will damage the lead acid battery.

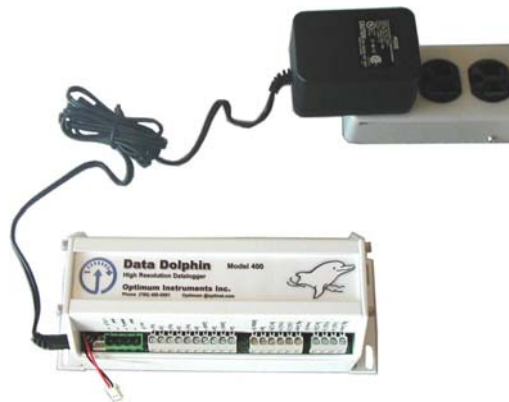


Figure 2: Model 400 with AC only system

3. Unplug the green power terminal connector from its socket on the Model 400 motherboard. Disconnect the battery harness from the battery terminals.



Figure 3: Power terminal connector

4. Turn the power terminal connector so that the wire ports are facing you. Into the leftmost terminal position, insert the red wire of the battery harness. Using the small slot type screwdriver, turn the clamping screw to tighten the wire into this terminal position.
5. Into the second terminal position of the power terminal connector, to the immediate right of the red wire, install the black wire of the battery harness. Using the small slot type screwdriver, turn the clamping screw to tighten the wire into this terminal position.
6. Slide the battery terminal connector on the black wire of the battery harness onto the negative (-) terminal of the 12 volt battery.
7. Slide the battery terminal connector on the red wire of the battery harness onto the positive (+) terminal of the 12 volt battery.
8. Insert the power terminal connector into its socket on the Model 400. After a short delay, the Model 400 should begin making a tick-tock noise, indicating that it is successfully running on battery power and needs to have its clock set.
9. Insert the AC adaptor into the Model 400's AC adaptor port and 110VAC wall socket to complete the installation of the battery backup system.