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Client: Fleetwood Group, Inc.  
Model: V240B  
Standards: FCC 15.249/IC RSS-210  
FCC/IC ID: FBRV240B/1859A-V240B  
Report #: 2010232

## **Appendix L: Manual**

Please refer to the following pages.

# **USER MANUAL**

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## **VL4B Module**

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**Revision History:**

<b>Rev</b>	<b>Date</b>	<b>Description</b>
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## 1.0 VL4B Module

### 1.1 Description

The V240B is a low power real time locating system badge. The V240B module is used to identify the location of an individual or asset location. It communicates at 2.4GHz, to a ceiling sensor module or a link module, and uses IR emitters that communicate with the ceiling sensor to determine its location.

The overall operation of the V240B module is controlled by a microcontroller. This microcontroller is powered from approximately 3V and uses a 16 MHz reference. The microcontroller handles control of the RF and IR communications, indicator LEDs, external I/O, and keypad inputs.

RF communications use a 2.4 GHz transceiver. The transceiver chip uses a 16 MHz reference oscillator that is shared with the microcontroller for TX/RX and is also powered by 3V. The transceiver uses an integral antenna on the PCB.

### 1.2 Battery Replacement

The V240B is powered from a 3V battery. The battery is replaceable. To replace battery, open the case, remove the old battery, and replace with a new battery noting its polarity. The negative side of the battery should be facing the PCB.

### 1.3 FCC and IC

V240B Module

Responsible Party Pertaining to the Declaration of Conformity

**Fleetwood Group, Inc.**  
**11832 James Street**  
**Holland, MI 49424**  
**Attn: Product Service Coordinator**  
**Phone: 888-467-3759**

### 1.4 Standards and Guidelines

This device complies with the following USA/Canada Regulations:

- The USA Federal Communications Commission FCC Rules and Regulations
- Industry Canada Rules and Regulations

This device complies with the following national and international standards:

- FCC Part 15B, 15.249 10-01-09
- IC RSS-210 Issue 7



### **1.5 FCC/IC Compliance**

This device complies with Part 15 of the FCC Rules and RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: 1 this device may not cause interference and 2 this device must accept any interference, including interference that may cause undesired operation of the device. The user is cautioned that changes or modifications to the device that are not approved by the manufacturer could void the user's authority to operate the device.