Appendix K: Manual

Please refer to the following pages.

FLEETWOOD

Electronic Interactivity—the Ultimate feedback mechanism.

USER MANUAL

BG3EI Wireless Response Base

Printed in the U.S.A.

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Holland, Michigan 49424

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Technical Service: 1-888-GO-REPLY (467-3759)

Revision History:

Rev	Date	Description
A	**3/16/2009**	**Original**

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1.0 BG3EI

1.1 Description

The BG3EI is a low power wireless response base. The BG3EI is used to interact with an audience so they can provide real time feed back to questions. It communicates at 2.4GHz, GFSK to keypads. The base unit polls keypads, and displays result.

The overall operation of the BG3EI is controlled by a microcontroller. This microcontroller is powered from approximately 3.3V, and uses its own 16 MHz reference. The microcontroller handles control of the RF communications, EEPROM, LED, and USB communications.

RF communications use the Nordic 24L01+ 2.4 GHz transceiver, a power amp, and LNA. The Nordic chip uses its own 16 MHz reference oscillator. The Nordic, power amp, and LNA are powered from 3.3V. The Nordic transceiver uses an integral PCB antenna.

1.2 FCC, IC, and EU Compliance Information

BG3EI Low Power Wireless Response Base
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

1.3 Standards and Guidelines

This device complies with the following European Directives and USA/Canada Regulations:

- Directive 1999/5/EC on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity
- Directive 2006/95/EC on the harmonization of laws of member states related to electrical equipment designed for use within certain voltage limits
- The USA Federal Communications Commission (FCC) Rules and Regulations
- Industry Canada Rules and Regulations

This device complies with the following national and international standards:

- EN 301 489-1 V1.8.1
- EN 301 489-17 V1.3.2
- EN 300 328 V1.7.1
- EN 60950-1: 2006
- FCC 15B, 15.247: 10-01-08
- IC RSS-210 Issue 7

1.4 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.

1.5 EU Compliance

This device is a 2.4 GHz low power response system controller intended for residential and commercial use in all EU and EFTA member states .

Notice

The base and keypad units may be susceptible to *E*lectro*s*tatic *D*ischarge (ESD) and other similar fast transient events causing system interruption. Should system interruption occur, reboot computer, reset base unit by disconnecting and reconnecting USB cable and push any key on keypads which have powered down.

1.6 Technical Specifications

		Min	**Typ**	**Max**	
V_{USB}	Supply Voltage at USB port	4.75	5.0	5.25	V
To	Operating Temperature	15		40	Deg C