This unit is pre-set for Plug n' Go™ operation, adjustment is optional.

For full operational details, adjustment and more features of the product, see the DLM System Installation Guide provided with Wattstopper room controllers, and also available at www.legrand.us/wattstopper.

Installation shall be in accordance with all applicable regulations, local and NEC codes. Wire connections shall be rated suitable for the wire size (lead and building wiring) employed.

For Class 2 DLM devices and device wiring, To be connected to a Class 2 power source only. Do not reclassify and install as Class 1, or Power and Lighting Wiring.

DESCRIPTION AND OPERATION

The LMBC-600 Network Bridge module provides a network connection for a group of Wattstopper Digital Lighting Management (DLM) Local Network room level devices. The DLM local network must include at least one room/load controller. Connecting the LMBC-600 to the DLM local network then to either the DLM Segment Manager or a third party system using the BACnet protocol exposes the status and parameters of all connected devices to the broader network.

MOUNTING AND INSTALLATION

Determine a suitable location for the LMBC-600. This will usually be in the ceiling closely located to the DLM local network devices to be networked either directly in the room/space or just outside in a hallway for easier access. Classrooms and patient rooms are ideal for hallway mounting of the bridge.

The LMBC-600 is UL2043 Plenum rated and comes with an DIN rail mounting plate for flexibility.

Warning: The LMBC-600 is a wireless device. Avoid mounting next to motors, large metal obstructions, or within 12” of another wireless emitting device.
WIRING TO THE DLM LOCAL NETWORK

The DLM local network uses free topology low voltage wiring. The LMBC-600 can connect anywhere on the DLM local network using LMRJ cables.

Use a Wattstopper LMRJ series cable or a Cat5e patch cable to connect the LMBC-600 to one of the RJ-45 jacks on any of the DLM local network devices. When connected to a powered DLM local network the red Transmit LED blinks rapidly. The red Config LED blinks at the same rate as the other DLM local network devices.

WARNING: Connect the LMBC-600 RJ-45 jack only to DLM lighting control devices. Do not connect Ethernet to the LMBC-600 RJ-45 jack.

CAUTION: TO CONNECT A COMPUTER TO THE DLM LOCAL NETWORK USE THE LMCI-100. NEVER CONNECT THE DLM LOCAL NETWORK TO AN ETHERNET PORT – IT MAY DAMAGE COMPUTERS AND OTHER CONNECTED EQUIPMENT.

LED INDICATORS

The bridge has two LED indicators visible when the top cover is closed or open

**Blue LED**
- Blinking – network traffic associated with a border router
- Solid – device is active but not connected to a border router

**Red LED**
- Blinking – DLM Local network IRB traffic

LMBC-600 START-UP PROCESS

The following information is intended for use by a Wattstopper authorized start-up technician.

**IMPORTANT:** Ensure all border routers are installed and powered off (LMRJ unplugged or breaker off) before installing wireless bridges. For multi story installations, please follow the steps below for each floor.

1. Using a Wattstopper LMRJ Cat5e cable, connect the wireless bridge by plugging the Cat5e cable into an available RJ45 port on both the bridge and any room controller inside the space or zone to be networked. Once connected to the room controller, the bridge will power on.
2. After power up sequence (less than 30 seconds), a solid BLUE led indicates the wireless radios are active and searching for border routers. The BLUE led will remain solid until it has associated with a border router (LMBR-600).
3. Power on all border routers installed in the space or on the individual floor
4. Bridges will automatically discover and join the panID of available border routers. Once this happens, the BLUE led will begin to blink periodically.
5. Confirm that all wireless bridges are powered on with the BLUE led blinking. Once verified the bridge installation for the area or floor is complete.
6. **Important:** For Multi-story deployments, it is recommended that all border routers be powered off to avoid bridges connecting to border routers on different floors. This method ensures more robust wireless communication between wireless nodes and easier system startup and management.
7. When all floors have been installed per the steps 1-6, the system is ready to be commissioned by a remote or on-site authorized Wattstopper Startup technician.
SECURITY NOTE: All wireless communication between the bridge and border router is encrypted throughout the entire install process using default network settings and trusted hardware pre-shared encryption keys. During system startup, security is updated from default settings to site specific settings to provide additional levels of security.

BRIDGE RESET

The LMBC-600 wireless bridge can be reset manually on the device or remotely through software.

Hardware Reset to Factory Default Network and Security Settings
1. Open the hinged bridge cover to by pressing and lifting (show product image).
2. With the cover open, locate the small reset hole in the bottom right hand corner.
3. The hole is sized to accept a standard size paper clip.
4. Insert paper clip into reset hole to access reset button, press and hold for 10 seconds to reset back to factory default network and security settings.

Software Reset Using LMCS (Advanced method)
1. Connect laptop with LMCS directly to the DLM room IRB or connect to the DLM BACnet network. See the LMCS User manual for details on setting up LMCS to communicate with a DLM network.
2. Locate the bridge device(s) to be reset in the LMCS device tree.
3. Click the bridge to access device properties.
4. On the Advanced tab, choose from a list of reset options.
   a. Reset network and security settings to default.
   b. Reset security settings only.

TROUBLESHOOTING

LMBC-600 LEDs fail to illuminate
Check LMRJ Cat5e connections

Blue LED fails to enter blinking state
Check to make sure border router is powered on
Warranty Information

Wattstopper warranties its products to be free of defects in materials and workmanship for a period of five (5) years. There are no obligations or liabilities on the part of Wattstopper for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.

Legal Notice

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Notice

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