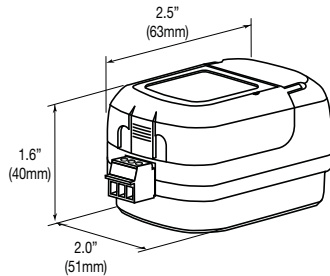


LMBC-300

Digital Lighting Management Network Bridge Module



SPECIFICATIONS

Voltage	24VDC
Current Consumption	21mA
Power Supply	WattStopper Room Controllers
Connection to DLM Local Network.....	2 RJ-45 ports
Segment Network	
Conforms to BACnet MS/TP master communication protocol	
Baud rates.....	selectable
38,400 standard, 9600, 19,200, 57,600, 76,800, 115,200	
Environment.....	For Indoor Use Only
Operating Temperature	32° to 158°F (0° to 70°C)
Storage Temperature.....	23° to 176°F (-5° to 80°C)
Relative Humidity.....	5 to 95% (non condensing)
Other:	
RoHS compliant	
UL2043 Plenum rated	
5-year warranty	

WattStopper®

Patents Pending

Installation Instructions

UNIT DESCRIPTION

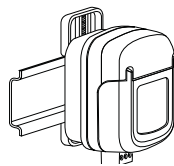
The LMBC-300 Network Bridge module provides a network connection for a group of WattStopper Digital Lighting Management (DLM) Local Network room level devices. The DLM local network must include at least one LMRC-100 series or one LMRC-210 series room controller. Connecting the LMBC-300 to the DLM local 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

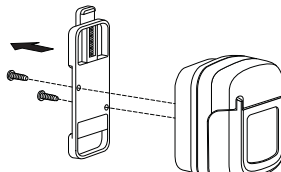
Determine a suitable location for the LMBC-300. This will usually be in the plenum associated with the DLM local network devices you are adding to the broader network. The LMBC-300 is UL2043 Plenum rated. A DIN rail mounting plate is provided with the LMBC for enclosure mounting if needed.

Installation shall be in accordance with all applicable regulations, wiring practices, and codes.

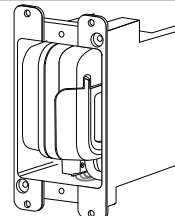
To be connected to a Class 2 power source only. • Class 2 Device Wiring Only – Do Not Reclassify and Install as Class 1, 3 or Power and Lighting Wiring. • Wire connections shall be rated suitable for the wire size (lead and building wiring) employed.



**Din rail clip
attached**



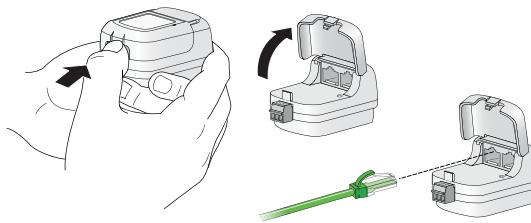
Removing din rail clip



**Inside a 2¹/₈" deep
single gang
wall box**

All connections to the LMBC-300 are Class 2 low voltage.

If code requires that the LMBC-300 be mounted in an enclosure, it can be mounted inside a 4" x 4" junction box, inside a 2¹/₈" deep (or deeper) 1-gang wall box, in a 3" or 4" octagonal box, or on a din rail inside a building automation panel.



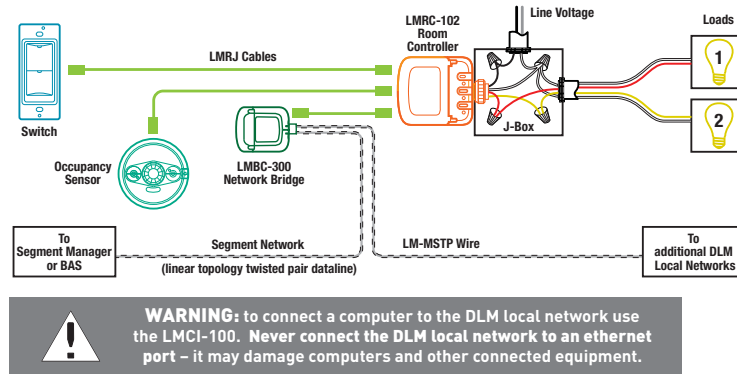
Attach the LMRJ Local Network Cable

WIRING TO LOCAL NETWORK

The DLM local network uses free topology low voltage wiring. The LMBC-300 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-300 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-300 RJ-45 jack only to DLM lighting control devices. Do **not** connect Ethernet to the LMBC-300 RJ-45 jack.



WIRING TO MS/TP NETWORK

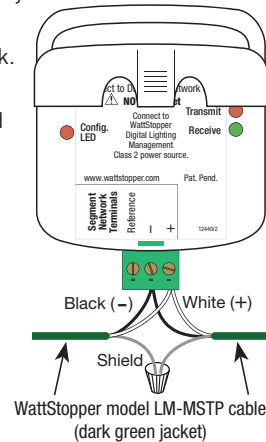
1. Connect the MS/TP network wire to the Segment Network Terminals on the LMBC-300, observing positive (+) and negative (-) polarity.

When using WattStopper LM-MSTP series wire, the positive is the white conductor and negative is the black.

Do **not** connect the shield conductor of the LM-MSTP wire to the LMBC-300 module. When making an in and out connection to the LMBC-300, the shield conductor must be twisted together and secured external to the LMBC terminals such that the shield maintains continuity for the entire length of the network.

Note: The shield conductor should be connected to the "S" terminal at the Segment Manager **only**.

2. With the network terminals connected to an active network, both the red Transmit and green Receive MS/TP LEDs blink rapidly.

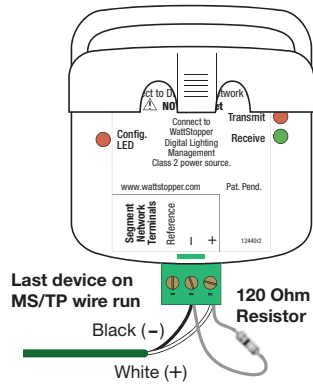


Termination Resistor

The last device on each end of a segment network MS/TP wire run must have a termination resistor. 120 ohm resistors are provided with the LSM-201 and LSM-603 for this purpose.

If the LMBC-300 is the last device on the MS/TP segment wire run, connect the resistor between the LMBC-300 positive (+) and negative (-) terminals along with the MS/TP wire connections.

When the LMBC-300 is the last DLM segment network device on the wire run, cap or tape the shield conductor to isolate it from ground or other contact.




THIRD-PARTY 3-WIRE MS/TP CONNECTION

For BAS integration some third party BAS systems such as Johnson Controls use a network configuration that includes an additional third wire (in addition to the shield). The third wire is designated as a reference for the network. When connecting the LMBC-300 to a "three wire" MS/TP BAS network, connect the third wire (reference) to the "Reference" terminal on the LMBC-300 terminal block.

WARRANTY INFORMATION

WattStopper warrants 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.

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