LMBC-300 Digital Network Bridge

Provides connectivity between a DLM local network and a BACnet-compatible DLM segment network

Component of Digital Lighting Management integrated control systems

Supports third party integration with BAS through BACnet MS/TP

BACnet
Registered trademark of ASHRAE

Plug n' Go automatically connects module with all devices on DLM local network

Self-configures on DLM segment network

Class 2 device powered from DLM local network

PROJECT

LOCATION/TYPE

Product Overview

Description

The LMBC-300 Digital Network Bridge provides a segment network connection for a group of Digital Lighting Management (DLM) local network devices. This enables individual DLM local networks to be aggregated into a larger system, which, in turn, can be remotely managed from a DLM Segment Manager or a building automation system (BAS).

Operation

An LMBC-300 operates on Class 2 power supplied to a DLM local network by one or more DLM room controllers. It is connected to the free-topology local network at any convenient location using a standard LMRJ cable, and has terminals for connection to the segment network using LM-MSTP wire. The LMBC-300 monitors the DLM local network and automatically exposes all room devices, settings and calibrations through the segment network. Incorporating a Network Bridge in each DLM local network also allows the individual local networks to respond in concert to schedules created and broadcast from a DLM Segment Manager.

Local Network to Segment Network Link

The LMBC-300 Network Bridge provides a two-way communication link between local network devices and a DLM Segment Manager or third party building automation system. The LMBC-300 makes all local device settings visible and adjustable through the Segment Manager user interface. This includes settings previously made locally either by Plug n' Go, Push n' Learn, an LMCT-100 configuration tool or the LMCS-100 DLM software. Additionally, many DLM device settings are made available to any BAS system that uses the BACnet protocol.

Applications

The LMBC-300 is ideal for retrofit applications where DLM local networks with LMRC-100 Series, LMRC-2xx Series or LMPL-101 room controllers need to be controlled or monitored by a centralized system. It may also be used with LMRC-100 Series room controllers for new projects that do not require current monitoring or dimming capability.

Features

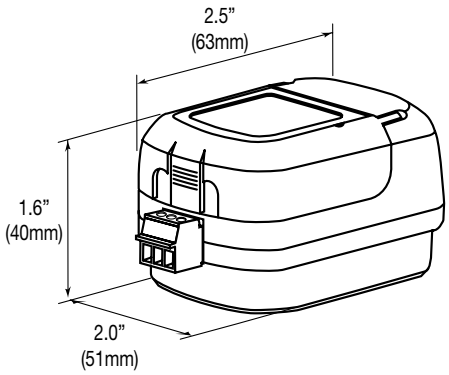
- Communicates all DLM local network data and device settings with a DLM Segment Manager via the segment network dataline
- Adds segment network functionality to DLM local networks with LMRC-100 Series, LMRC-2xx Series or LMPL-101 Room Controllers
- Easy integration with BAS through use of standard BACnet objects to represent DLM local network device settings and states
- Class 2 operation and plenum rated housing facilitate simple installation
- DIN rail mounting clamp provided with the unit to facilitate box or panel mounting
- UL 2043 plenum rated
- Qualifies for ARRA-funded public works projects

Specifications

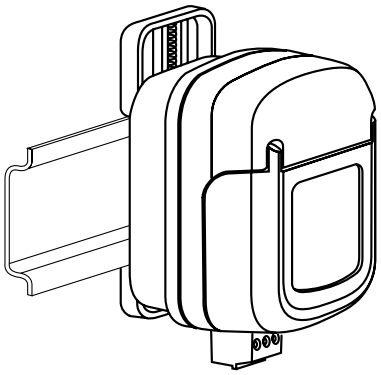
- Operating voltage: 24VDC from DLM local network
- Current consumption: 30mA
- DLM local network connection: 2 RJ45 ports
- Removable terminal block for twisted pair DLM segment network connection
- Segment network parameters:
  - WattStopper LM-MSTP wire, or equivalent rated for BACnet MS/TP (RS485)
  - Linear topology; 4000' maximum per segment
  - Up to 127 local networks or panels per segment
- DIN rail mounting plate provided with the unit for cabinet or panel mounting
- Status LEDs indicate normal operation
- Operating conditions: for indoor use only; 32-158°F (0-70°C); 0-95% RH, non-condensing
- UL and cUL listed
- FCC part 15 compliant
- Five year warranty

Dimensions & Mounting

Product Dimensions

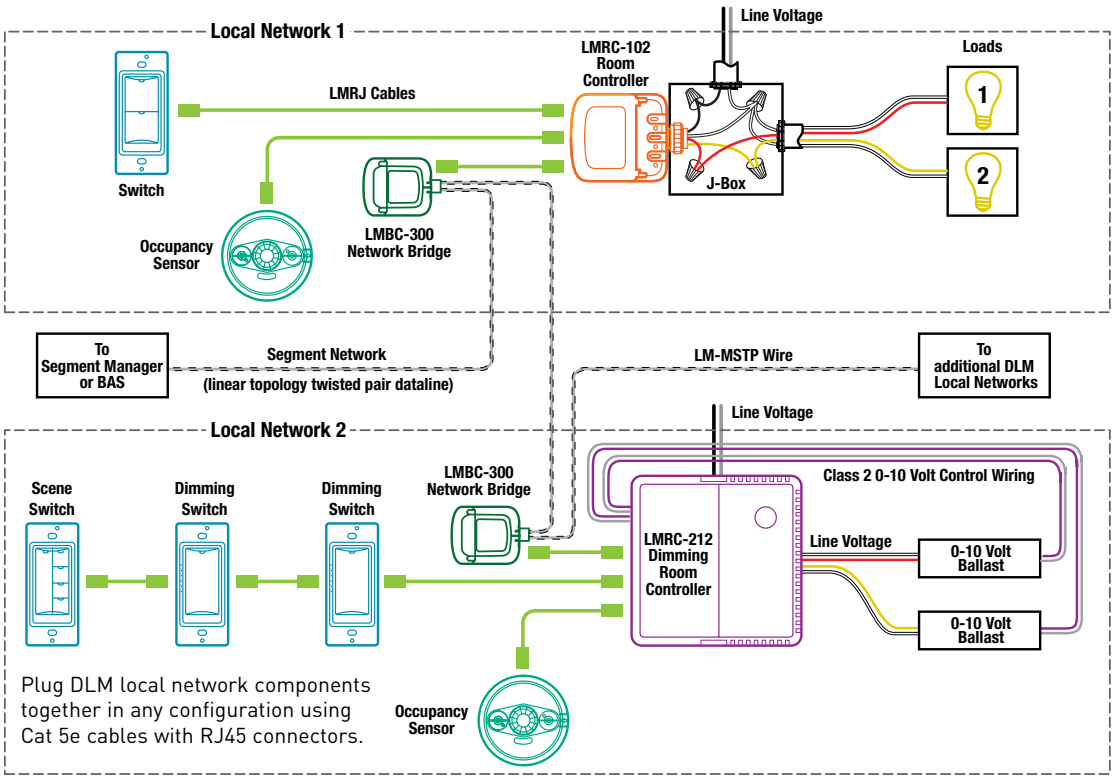


DIN Rail Mounting



Connecting

Typical Connections to DLM Local Networks and Segment Network Dataline



Ordering Information

Catalog. No.	Description
☐ LMBC-300	Network Bridge
☐ LMBC-300-U	Network Bridge, ARRA compliant