



DESCRIPTION

The **Wattstopper Digital Lighting Management, DLM Series** is an intelligent, distributed control system that automatically maximizes lighting energy efficiency. **DLM** is designed to scale from stand-alone control of individual rooms to centralized control of a floor, a building, or an entire campus. With **DLM**, you layer your choice of control strategies to meet project goals, from energy code compliance to building aesthetics, simplified maintenance and enhanced energy performance. Control options include room controllers for switched or dimmed lighting loads, or for plug loads; digital occupancy sensors; sleek switches and handheld remotes; versatile daylighting sensors; lighting control panels; tools for remote configuration, scheduling and system management; and interfaces providing connectivity to third party devices.

For building-wide monitoring and management, multiple **DLM** local networks may be connected to an industry standard open protocol network for control by a segment manager or building automation system (BAS).



DLM Series

WattStopper | **legrand**

BACnet



FEATURES

- *On/off and dimming control options*
- *Plugged components on a free-topology Category 5e DLM local network*
- *Capable of bi-level control, daylight harvesting, plug load control, and dimming*

SPECIFICATIONS

Supply Voltage		Field Device Comm.	
LMPL	120VAC, 50/60Hz	BACnet MS/TP, Free topology (Star or Daisy chain)	
LMRC	120VAC or 230VAC or 277VAC, 50/60Hz	Input Devices	
Auxiliary Supply Output		Modules use 5-20mA each (See module specs)	
LMPL-X01	24VDC @150mA	Output/CTLR Devices	
LMRC-100	24VDC @150mA (Adds 150mA to system network)	Controllers provide network power for remote modules	
Lighting Relay Output Capacity		LMRC-101, LMPL-101	
4 CTRLs per local network (8-relay max)		Local network has up to 24 addresses, 4 CTRLs max	
LMPL-X01	Single or Dual Latching SPST (For recepticals)	LMRC-2xx, LMPL-201	
LMRC-101	Single Latching SPST (For lights)	Up to 4 ON/OFF loads possible	
LMRC-102	Dual Latching SPST (For lights)	Local network has up to 48 addresses, 4 CTRLs max	
DI Hard Wire (HW) Inputs		Up to 12 ON/OFF loads and 12 dimmers possible	
Relay/Contactor		LMBC or LMRC	
Ballast	20A @ 120/277 VAC	Each segment talks with up to 127 "Local networks"	
Tungsten	20A @ 120VAC,	Configuration	
Fan HP	1HP @ 120/240 VAC	LMCT-100 Prog. tool (Required on first install)	
Relay termination		Special features	
Relay override		Completely distributed outputs and inputs over BACnet	
Dimming Output Capacity		Operating Temperature	
4 CTRLs per local network (12-relays & 12 dimmers max)		Gen. Limits, 50° to 104°F (See module specs)	
LMRC211	1 latching relay & 0-10V dimmer output	Operating Humidity	
LMRC212	2 (latching) relays & 2 (0-10V) dimmers	Gen. Limits, 5-90% RH non-condensing	
LMRC213	3 (latching) relays & 3 (0-10V) dimmers	Mounting	
Display		Hub, ceiling or wall mount (See module specs)	
BAS Communication		Enclosure Rating	
BACnet MS/TP, w/(LMBC-300 network bridge)		NEMA 1, dry location	
		Approvals	
		BTL, FCC Part 15, ASHRAE 90.1, IECC, EPA, California Title 24,	
		Warranty	
		1 year	



LIGHTING CONTROLS

DIGITAL LIGHTING CONTROLS

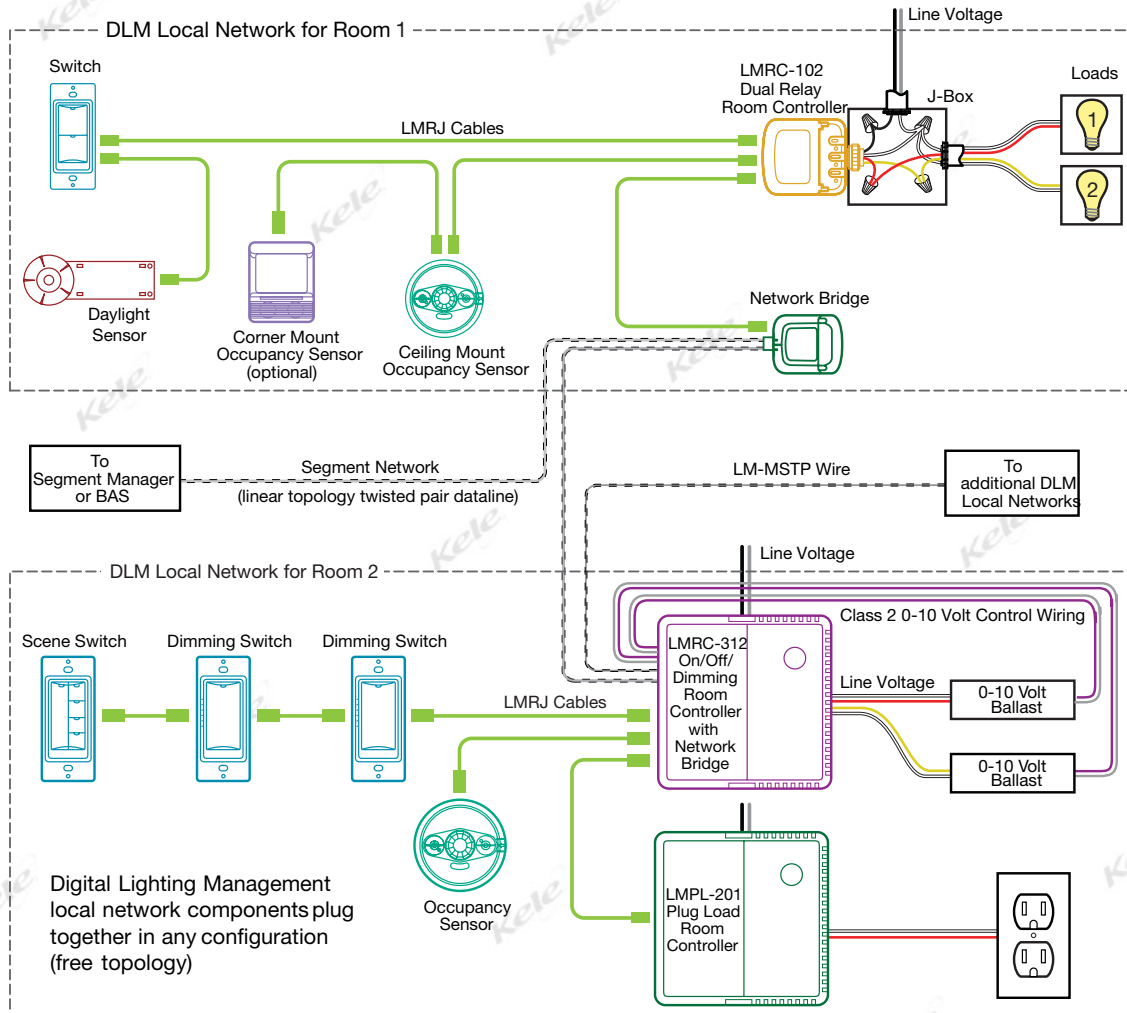
DLM SERIES DIGITAL LIGHTING MANAGEMENT

APPLICATION

Digital Lighting Management (**DLM**) components operate on a free-topology **DLM** local network. Each **DLM** local network is managed by one or more room controllers that, upon startup, automatically configure system components for the most energy-efficient sequence of operation using Plug n' Go technology. Plug n' Go establishes default functionality based on the installed components. The **DLM** architecture is designed from the bottom up, the segment network operation is simple, and builds on the Plug n' Go and Push n' Learn functionality of each local network. New or existing **DLM** systems can easily be incorporated into BACnet MS/TP networks. **DLM** Network Bridge devices are standard MS/TP master devices, and the MS/TP MAC address and communication baud rate are automatically configured through arbitration with other devices on the network. Building operators create normal and after hours lighting control schedules and monitor operation for energy savings and real-time consumption. [For more product information and data sheets go to WWW.KELE.COM]

CONNECTION DIAGRAM

Two DLM local networks connected to optional DLM segment network



Each segment network can connect up to 127 local networks for centralized monitoring and control



ORDERING INFORMATION

MODEL	DESCRIPTION
LMBC-300	BACnet network to DLM Network bridge
LMSC-ENC1	Enclosure for Segment Manager, 14"L x 8.5"W x 5"D, include 120VAC duplex outlet
LMCI-100	Computer Interface USB to DLM (RJ45) adapter for free LMCS software
LMCS-100	Computer Interface DLM Configuration Software (Free Download)
LMRC-311	DLM to BACNET Bridge, One SPST Relay and One 0-10V Dimming Output
LMRC-312	DLM to BACNET Bridge, Two SPST Relay and One 0-10V Dimming Output
LMRC-313	DLM to BACNET Bridge, Three SPST Relay and One 0-10V Dimming Output
LMRC-CA	Conduit adapter for LMRC (2XX and 3XX) controllers
LMPL-101	Digital Single Plug Load Room Controller, Hub Mount
LMPL-201	Digital Single Plug Load Room Controller, Box Cover Mount
LMRL-100	Isolated SPDT, 1A @ 24VAC/DC Relay
LMRC-101	Digital On/ Off room controller with one SPST relay, Hub Mount
LMRC-102	Digital On/Off Room Controller with 2 SPST relays, Hub Mount
LMRC-211	Digital On/Off/0-10 Volt Dimming Room Controller with 1 relay and 1, 0-10 volt dimming output
LMRC-212	Digital On/Off/0-10 Volt Dimming Room Controller with 2 relays and 2, 0-10 volt dimming outputs
LMRC-213	Digital On/Off/0-10 Volt Dimming Room Controller with 3 relays and 3, 0-10 volt dimming outputs
LMSW-101-I-P	Digital 1-Button Wall Switch with Ivory plate
LMSW-102-I-P	Digital 2-Button Wall Switch with Ivory plate
LMSW-103-I-P	Digital 3-Button Wall Switch with Ivory plate
LMSW-104-I-P	Digital 4-Button Wall Switch with Ivory plate
LMSW-105-I-P	Digital 5-Button Scene Switch with Ivory plate
LMSW-108-I-P	Digital 8-Button Wall Switch with Ivory plate
LMDM-101-I-P	Digital 1-Button Dimming Wall Switch with Ivory plate
LMPC-100	Digital PIR Ceiling Mount Occupancy Sensor
LMUC-100	Digital Ultrasonic Ceiling Mount Occupancy Sensor
LMDC-100	Digital Dual Technology Ceiling Mount Occupancy Sensor
LMPX-100	Digital PIR Corner Mount Occupancy Sensor
LMDX-100	Digital Dual Technology Corner Mount Occupancy Sensor
LMIO-101	Digital Input/Output Interface (2 DI, 1 DO)
LMIO-201	DLM 1 Analog Input Module (0-10V HVAC) Hub Mount
LMIO-301	DLM (0-5, 10V) Light Sensor Input for MK7-B Sensors
LMLS-105	On/Off Daylight control Photosensor with I-850 FC set point hub mount
LMLS-305	0-10 Volt Dimming Daylight Control Photosensor
LMLS-400	Digital on/off dimming Daylight Control Closed Loop Photo sensor
LMLS-500	Open Loop Multi-zone DLM Daylight Control Photo sensor with extened tube
LMLS-MB1	Photo sensor mounting bracket J box for LMLS (400, 500)
LMLS-MB2	Photo sensor mounting bracket wall mount for LMLS (400, 500)
LMRH-101	Digital Handheld, 1-Button Rocker, Dimming IR Remote Control
LMRH-102	Digital Handheld, On/Off 2-Button IR Remote Control
LMRH-105	Digital Handheld, 5-Button Scene IR Remote Control
LMIR-100	Digital IR Remote Control Ceiling Mount Receiver
LMRJ-25	RJ45 cables 25 feet nonplenum rated
LMJR-C8	RJ45 Female to Female Coupler

ACCESSORIES

LMSM-ENC1	Enclosure for Segment Manager, 14"L x 8.5"W x 5"D, include 120VAC duplex outlet
LMCT-100	Digital Wireless Configuration Tool

RELATED PRODUCTS

LMCP Series	Central Breaker Relay Panel
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