Project		Catalog #		Type	
Prepared by		Notes		Date	

WaveLinx Wired

BMS Pro 2

Feature-rich, high performance protocol translator which allows data exchange between Cooper Lighting Solutions Greengate, WaveLinx Wired and Fifth Light lighting control systems and the Building Automation Systems

Typical Applications
Office • Education • Healthcare • Hospitality • Retail
Industrial • Manufacturing

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Product Certification

Class B & C Part 15

Overview

Cooper Lighting Solutions BMS Pro 2 is a BTL-certified protocol translator that enables data exchange between Greengate, Fifth Light and WaveLinx Wired lighting control systems and building automation systems.

The gateway converts these systems' protocols to BACnet/IP, BACnet MS/TP and LON. It also has a BACnet Explorer client and a BACnet Broadcast Management Device (BBMD).

Product Features & Benefits

- **Multi-protocol and lighting control systems support –** A single device that enables the integration of Cooper Lighting Solutions Greengate, WaveLinx Wired and Fifth Light system with third party system via BACnet/IP, BACnet MS/TP.
- **Web-based Programming Interface –** The gateway's web-based user interface allows system integrators to easily program the gateway based on their needs. The installer selects the desired Cooper Lighting Solutions lighting control system and configure the gateway accordingly.
- **Integrated BACnet Explorer –** Eliminates the need for third party BACnet sftware packages and connectors to automatically discover BACnet devices and browse the BACnet networks for configuration and diagnostics.
- **Integrated BACnet Broadcast Management Device (BBMD) –** The integrated BBMD eliminates the need for an external BACnet Router to allow data exchange between two BACnet devices operating on different subnets. The BBMD will send any received broadcast messages as directed message through the IP router to its partner BBMD device.
- **Diagnostics LEDs –** The gateway's LEDs allows user to easily detect failure or communication issues at the gateway.

Order Information

Catalog Number

Catalog Number	Description
FPA-W44-1757	BMS Pro 2 – BACnet Gateway

Notes

1. For a Greengate system, an EIM (Ethernet Interface Module) is required. The EIM is a serial to Ethernet converter. Please refer to the wiring diagram section above and required accessories section below.
2. For a WaveLinx Wired system, an EG2 (Ethernet Gateway) is required. The EG2 is an iCAN to Ethernet converter. Please refer to the wiring diagram section above and required accessories section below.
3. For a Fifth Light system, no physical layer converter is required.
4. The BMSPro 2 can only connect to a single system.

Required Accessories

Catalog Number

Catalog Number	Description
EIM	Ethernet Interface Module (Only required for all Greengate installations)
TSI-1	Touchscreen Interface (only required for all WaveLinx Wired installations)

Product Specifications

Mechanical

Size: 4.0 x 1.1 x 2.7 in. (10.16 x 2.8 x 6.8 cm)
Weight: 0.4 lbs (0.2 kg)
Environment:

- **Operating temperature:** -20°C to 70°C (-4°F to158°F)
- **Relative humidity:** 10-95% RH non-condensing
- For indoor use only

Mounting:

- Table, Wall mount
- DIN rail mount included

Electrical

Power:

- 24VAC 125mA
- 12-24 VDC 250mA @ 12VDC
- Max Power: 3W

Only a subset of Cooper Lighting Solutions Lighting Control Panels include a 24VDC power supply.

Software Specifications

Supported Protocols

- BACnet/IP, BACnet MS/TP
- Modbus RTU

Communication

- SSerial (Galvanic Isolation): 1 X RS-485/RS-232 & 1 X RS-485
- Baud: 9600, 19200, 34800, 57600, 76800, 115000
- Ethernet: 10/100Base/T
- DHCP

Web-based configuration
Toolbox diagnostic utility

Manufacturer: FieldServer Technologies (MSA Safety Incorporated)

Standards/Ratings

- UL 60950
- FCC Class B & C Part 15
- CE
- PTCRB
- CTIA
- BTL Listing (under MSA Safety, ProtoAir, FPA-W44 model)

Product Safety:

- UL 60950-1
- IC Canada

Environmental Regulations:

- RoHS Directive
- WEEE Directive

Warranty

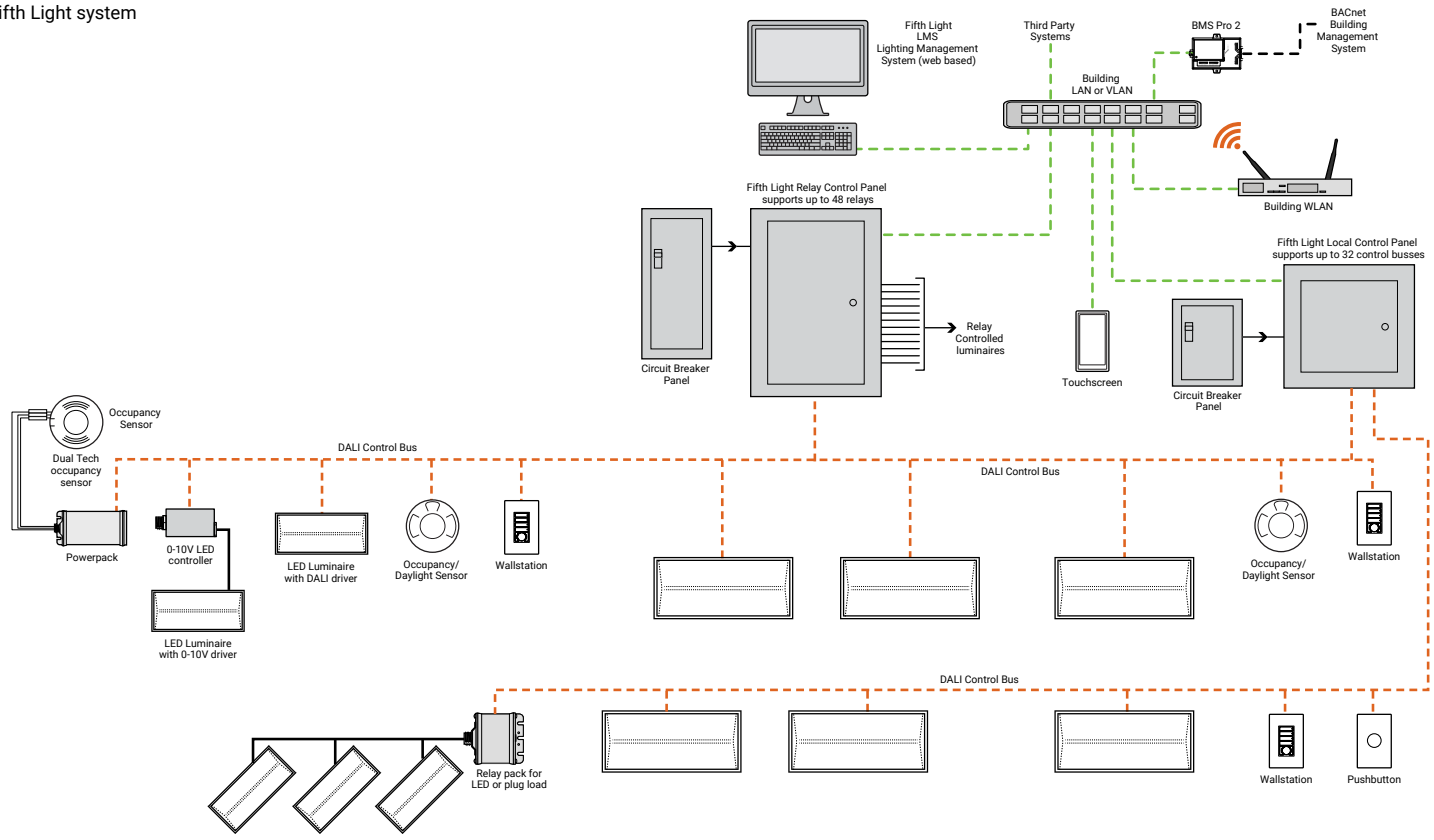
Five year warranty standard

System Performance

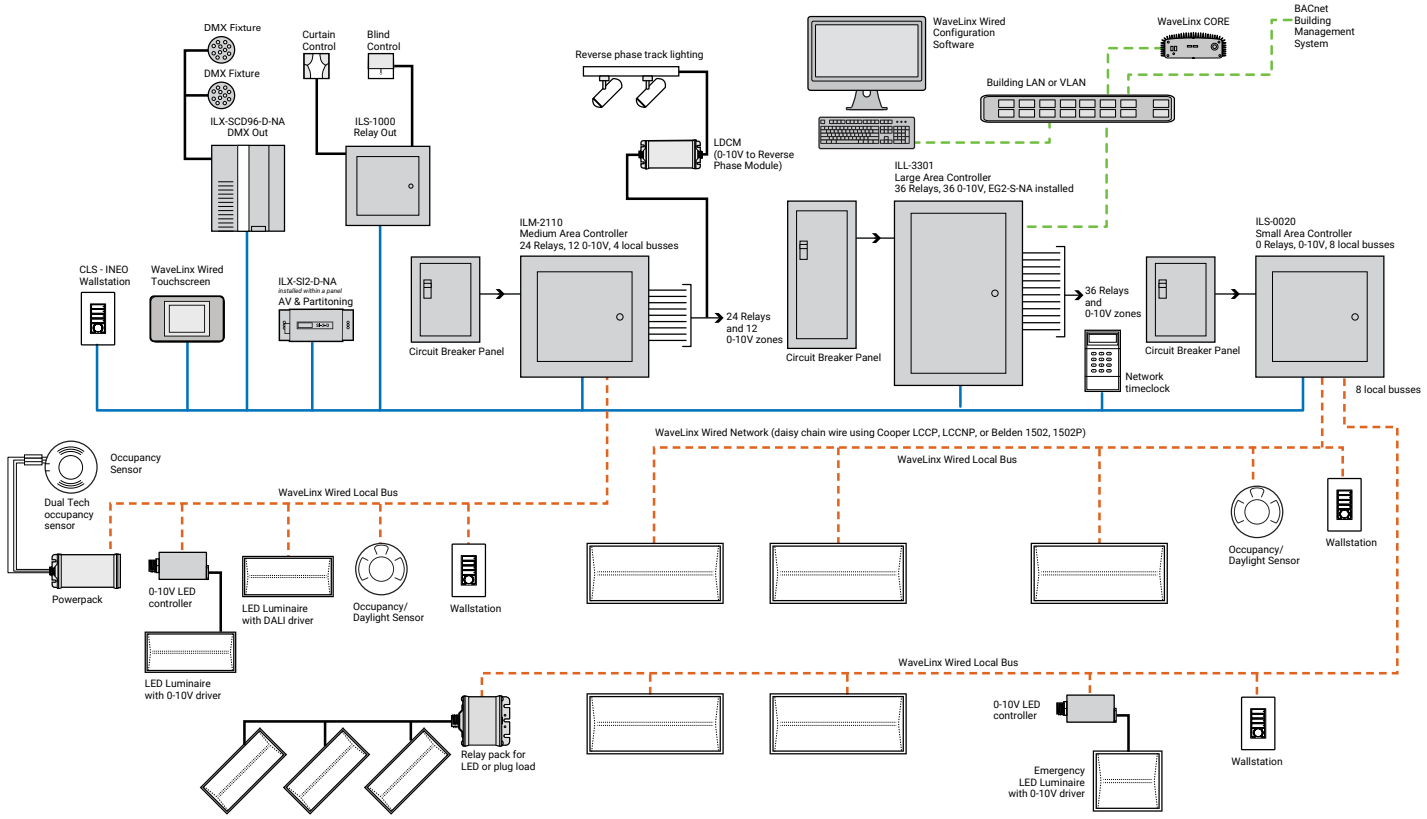
Property Values	Lumens
Supported Greengate System	Room Controller (115 points per panel) ControlKeeper 2 (161 points per panel) ControlKeeper 4 (161 points per panel) ControlKeeper 4A (181 points per panel) ControlKeeper T (213 points per panel) ContolKeeper M/MB (225 points per panel)
Control of Greengate System	Manually turn relays & dimmers On/Off Check status of relays and dimmers
Total Number of objects supported for Greengate	10,000
Supported WaveLinx Wired System	SCUN SCUN-FT ILS ILM ILL Note : Based on imported Virtual Area File
Control of WaveLinx Wired System	Manually trigger Area On/Off Manually trigger Scenes per area
Control of WaveLinx Wired System	Refer to BMSPro for WaveLinx Wired - PICS
Total Number of objects supported for WaveLinx Wired	10,000
Supported Fifth Light System	All LCP Panels
Control of Fifth Light System	Refer to the BMSPro for Fifth Light - PICS
Total Number of objects support for Fifth Light	10,000

System architecture

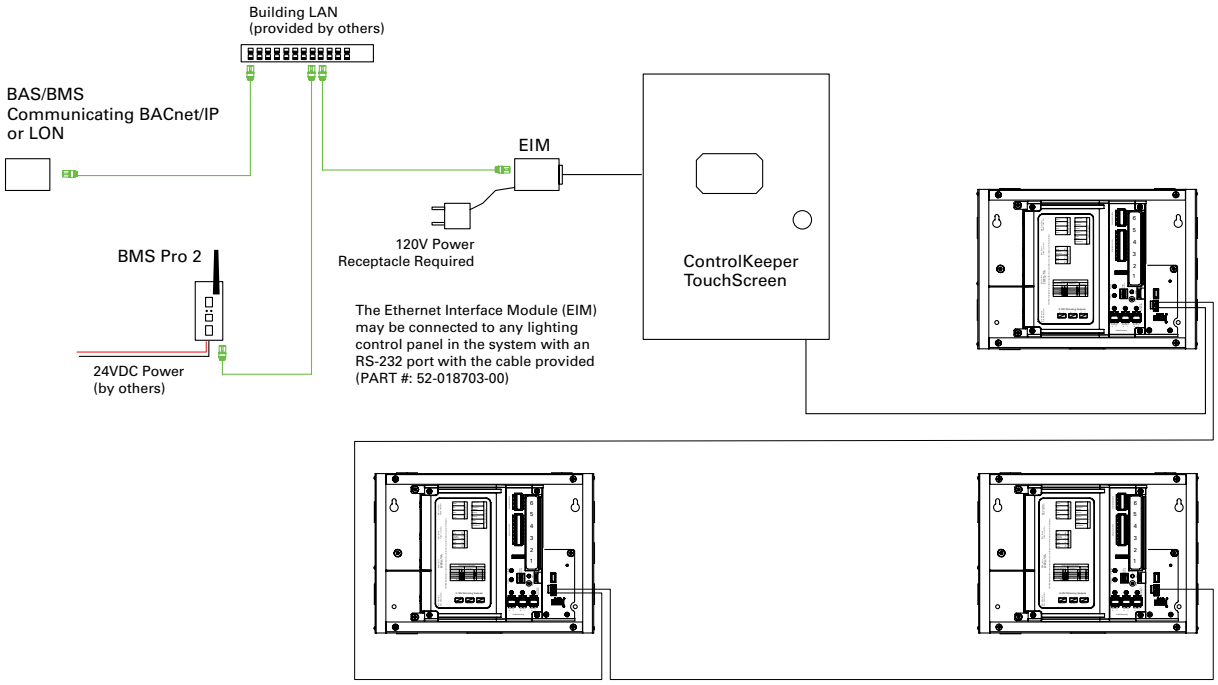
Fifth Light system



WaveLinx Wired system



Greengate system



Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

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Specifications and dimensions
subject to change without notice.