SmartStruxure[™] Lite Solution

MPM Series Wireless Manager (MPM-GW)

Smart Ftruxure Compatible

Site and zone managers providing 100% wireless integrated control solutions for HVAC, lighting, and metering, as well as remote management via StruxureWare™ Building Expert.





SmartStruxure Lite solution Wireless Manager Features





AT A GLANCE

Networking

- Ethernet connector for BACnet Ethernet/IP
- 802.15.4 wireless mesh (25 nodes/network)
- · Wired serial bus for daisy chain (CANbus)

Third-party interoperability

- BACnet, EWS, oBIX, FTP
- EnOcean (wireless)
- ZigBee Pro (wireless)
- CANbus

Inputs/Outputs

- EnOcean (wireless): 49 devices
- · ZigBee Pro (wireless): 30 peripherals

Othe

- · Real-time clock
- 400MHz processor
- 64MB of RAM
- 4GB of Flash for local storage
- StruxureWare Building Expert

Multi-Purpose Management devices (MPM) enable the control, monitoring, and management of entire sites via StruxureWare Building Expert. They can also be used for wired and wireless zone control in larger buildings.

Control features

- Wireless control of EnOcean end-devices (optional, 49 points per MPM)
- Wireless control of ZigBee Pro end-devices (optional, 30 peripherals per MPM)
- Programmable via StruxureWare Building Expert
- Points visible through BACnet®, EcoStruxure®
 Web Services (EWS) and oBIX®
- Real-time response to scripting/graphical programming

Applications

The MPMP-GW has an aesthetic look, similar to a router, allowing for in-room deployment. It supports control and gateway functionality for wireless peripherals for the following applications:

- HVAC room and zone control (actuators, thermostats, sensors)
- Lighting room and zone control (switches, relays, sensors)
- Access (ikeycard readers and occupancy sensors)
- Wireless meters and sub-meters

Networking Between Units

- Wireless: ZigBee Pro wireless mesh network (self-forming/healing, 25 nodes per network)
- · Wired: Daisy chain
- IP/Ethernet: Ethernet port

Embedded gateway

- EnOcean (wireless) to BACnet IP/oBIX/EWS
- ZigBee Pro (wireless) to BACnet IP/oBIX/EWS
- Modbus to BACnet IP/oBIX/EWS

StruxureWare Building Expert

All MPM models have an embedded web server hosting Building Expert, a web-based intelligent building management system that allows complete configuration and management of small sites. Building Expert offers dashboards, maps, graphical programming, scripting, scheduling, trend logging and more. It is the perfect mini-iBMS for small and medium buildings. It can also be integrated with other SmartStruxure solutions.

SmartStruxure Lite solution Wireless Manager Specifications

Specifications •

Power

Voltage

24VAC; ± 15%; 50/60HZ

24VDC ± 10%

Typical consumption

5 VA + Output (VAC), 1.6 W + Output (VDC)

CR1220 3v Lithium Coin Cell Battery

General

Processor

ARM9 32-bit, 400MHz

Memory

64MB flash

Storage

4GB flash for local storage

Real-time clock

Battery backed (10,000 hours)

Communication

ZigBee Pro, EnOcean, BACnet

CANbus (125-500 Kbps)

Ethernet (10/100 Mbps)

Enclosure

Material

Rigid ABS

Dimensions

116mm (4.57 in) x 191mm (7.52 in)

Rating

UL94V0-5VB

Mounting

Din-rail, wall or ceiling mount

Environmental

Operating Temperature

0°C (32°F) - 60°C (140°F)

Storage Temperature

-20°C (-4°F) - 60°C (140°F)

Relative Humidity

0 to 90% non-condensing

EnOcean (optional)

Frequency

315MHz, 868MHz, or 902MHz

Receiver Sensitivity

-95dBm

Conducted Output Power

5dBm

Range

Recommended: 45ft/15m Line of sight: 100ft/30m

Antenna

External whip, RP SMA 0dBi ZigBee Pro (optional)

Frequency

2400 - 2483.5MHz, 16RF channels

Data rate/Mod.type

250Kbps

Receiver Sensitivity

-101dBm/-105dBm (amplified)

Nominal Output Power

8dBm/18dBm (amplified)

Range

Recommended to MPM: 150ft/50m Line of sight to MPM: 300ft/100m Recommended to peripherals: 50ft/17m Line of sight to peripherals: 100ft/30m

Antenna

External whip, RP SMA 2.5dbi

StruxureWare™ Building Expert

Software type

Embedded web interface

Local installation

None necessary

Browser compatibility

Firefox ESR

Internet Explorer 10 (only)

Google Chrome Safari (Mac only)

Agency approvals

Energy Management Equipment, UL 916, Fourth Edition, December 23, 1998, rev.

December 17, 2007

CSA Standard for Signal Equipment C22.2

No. 205-M1983 (R2004)

CFR47 FCC Part15, Subpart B:2009

ICES-003: Issue 4 (2004)

CE

Japanese Radio Law

RoHS

Disclaimer

impaired.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be

Disclaimer

- this device may not cause harmful interference
- this device must accept any interference received, including interference that may cause undesired operation

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions

- this device must accept any interference, including interference that may cause undesired operation of the device

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes

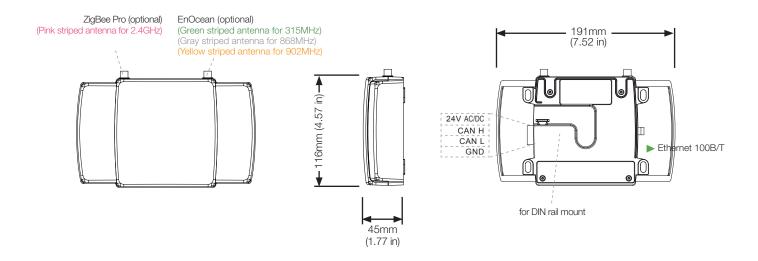
- l'appareil ne doit pas produire de brouillage
- I'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

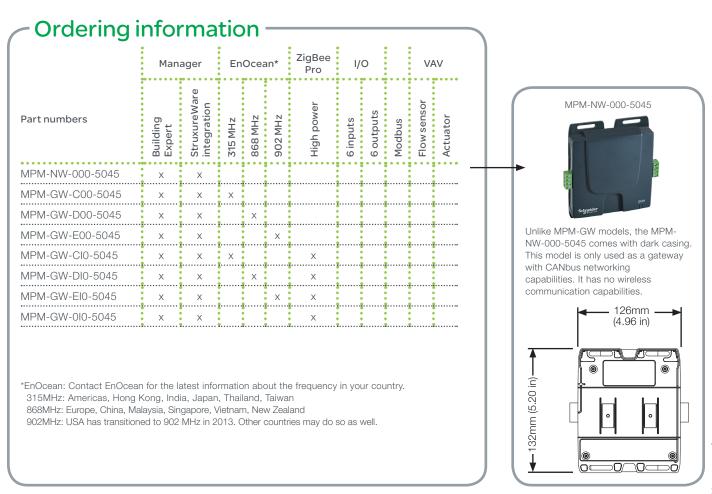






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