

enteliMESH®

Wireless Field Modules: WFM-404

Description

The WFM-404 provides wireless remote I/O to a Delta Controls System through an enteliTOUCH. The WFM-404 inputs and outputs appear in the enteliTOUCH as BACnet objects. The WFM-404 is a powered device that also functions as a wireless repeater/router to extend the range of Delta wireless network sensors (WNS) and other WFM devices.



Application

The WFM-404 is useful for providing remote I/O for areas difficult to wire, or for retrofit applications. Common applications include unit heaters, exhaust fans, radiant heat, and other non-critical devices, for use in hotels, motels, and portable buildings.

Features

- ▶ Self-routing, self-healing, mesh networking
- ▶ Communication distances up to 30 m (100 ft) indoors and 100 m (340 ft) outdoors
- ▶ Radio frequency channel is set via DIP switches
- ▶ PAN ID is set via DIP switches
- ▶ Device address is set via DIP switches
- ▶ Compact size, easy to mount
- ▶ Multiple antenna options (using SMA connector)

Specifications

Inputs

- 4 Universal Inputs (10 bit), supporting:
 - 0-5 VDC
 - 0-10 VDC
 - 10 k Ω Thermistor
 - 4-20 mA

Outputs

- 4 Binary Relay Outputs
 - 0.5 A @ 24 VAC
 - Jumper selectable for internal or external power

LED Indicators

Scan

Radio RSSI (received signal strength indicator)

Associate

Output LED status indication

PAN ID

Set via DIP switches

Connectors

Removable screw-type terminal connectors

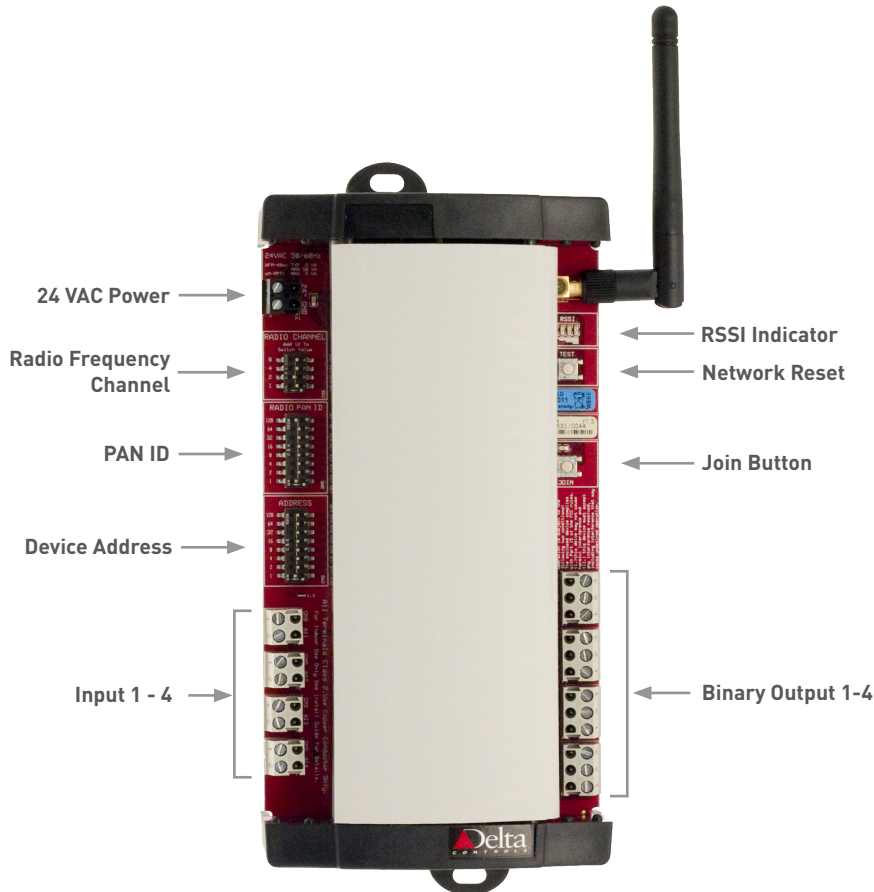
RP-SMA antenna

Wiring

Class 2

enteliMESH®

WFM-404: Board Layout Diagram



Specifications (Continued)

Power

24 VAC @ 5 VA, 50 VA max with fully loaded Binary Outputs

Technology

16-bit processor

Communication

ISM 2.4 GHz frequency band, wireless digital spread spectrum 802.15.4 compliant

Ambient

32° to 131°F (0° to 55°C)
10 to 90% RH (non-condensing)

Dimensions

7½ x 3⅞ x 1⅞ in.
(19.2 x 10 x 4.8 cm) excludes antenna

Weight

0.75 lb. (340 g) with housing

Compliance

CE (ETSI)
IC (4214A-XBEE2)
FCC, Class B, Part 15 (OUR-XBEE2)

Listings

UL 916 Listed

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Ordering

Order the WFM-404 according to the following product numbers:

WFM-404	4 Universal Inputs, 4 Binary Outputs
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Accessories

eM-RPT	Delta Wireless Repeater, extends the range of enteliMESH devices
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Subject to change without notice.