



# Peak Demand Automation

## 900 MHz Multipoint data radio

with diagnostic LEDs for easy debug!

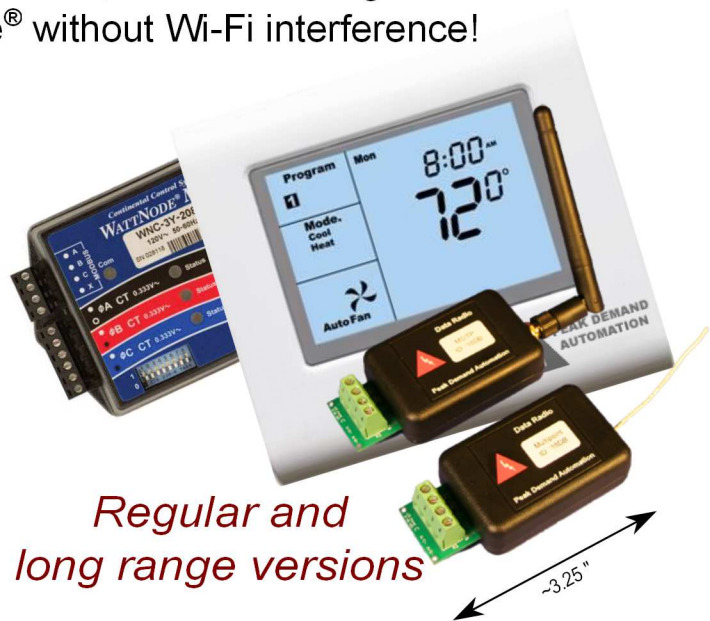
### Wireless Cable Replacement

Pre-configured, simple and easy to use, no mesh configuration  
16 times the coverage of Zigbee® without Wi-Fi interference!

*HVAC compatible:  
24VAC or DC powered*

Connect RS-485 devices wirelessly in situations where wiring is costly or inconvenient. With up to four mile range it's often more cost effective to use a radio than a wire. The PDA Multipoint data radio uses an industry standard radio module in the 900 MHz ISM band for maximum penetration indoors and through walls. Comes completely configured for use at 19,200 baud.

Input voltage 8 to 40 VDC or 24VAC. Works with standard 24 VAC found in all HVAC systems. Diagnostic LEDs allow for instant debug of RS-485 polarity, data presence and radio range.



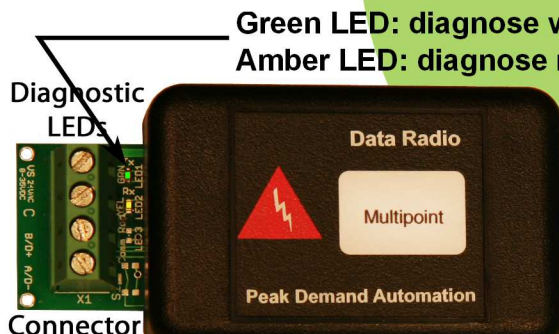
*Regular and long range versions*

Wattmeter and wireless thermostat not included.

### Easy to use with Modbus® or any other EIA-485 Protocol!

#### Features

- 900 MHz band for best range: 1000 ft indoors
- 4 times the distance (16 times the area) of Zigbee® radios!
- Spread spectrum security and reliability
- Diagnostic LEDs for both signal wire and radio performance
- Perfect for range surveys
- 16 non-overlapping channels
- Built in wire antenna
- Pre-configured 19.2 kbaud
- Low power consumption
- 12 channels
- 65,000 network codes



**Green LED: diagnose wires**  
**Amber LED: diagnose radio link**

### Outstanding Radio Range



Zigbee®

External Wire Antenna

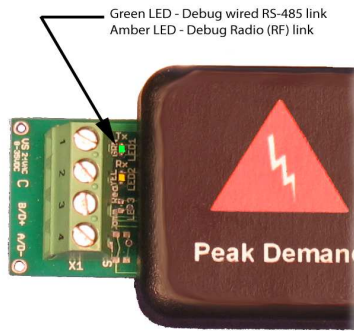
**BACnet® MS/TP version available**

www.peakdemandautomation.com  
800-503-1123





# Peak Demand Automation Data Radio Specifications



Diagnostic LEDs for link debugging



Two versions, wire antenna and long range antenna

## Technical Specifications, Radio Module

<b>Frequency Band:</b>	902 to 928 MHz
<b>Antenna Options:</b>	Wire or external (2.1dBi) antenna
<b>RF Data Rate:</b>	200 kbps, 105 kbps throughput with packet overhead
<b>Indoor/Urban Range:</b>	up to 1000 ft (305 m)
<b>Line-Of-Sight Range:</b>	Up to 4 miles (6 km) w/ dipole antenna
<b>Transmit Power:</b>	24 dBm (250 mW)
<b>Receiver Sensitivity:</b>	-101 dBm
<b>Data Interface:</b>	EIA-485 (RS-485) , 19.2 kbaud standard, Modbus RTU compatible
<b>Networking Topology:</b>	Point-to-Multipoint
<b>Spread Spectrum:</b>	FHSS
<b>Supply Voltage:</b>	8 to 40 VDC, 24VAC HVAC compatible
<b>Transmit Current:</b>	240 mA
<b>Receive Current:</b>	55 mA
<b>Dimensions:</b>	3.3" x 1.6" x 0.8" (83 x 42 x 21 mm) (body only)
<b>Weight:</b>	1.6 oz (45g) (body only)
<b>Indicators:</b>	Green: Data line status Amber: Radio status
<b>Approvals:</b>	FCC (US only)