## PowerWise Systems inGate

The PowerWise Systems inGate is a commercial-grade ethernet gateway designed for data monitoring and control of building systems. This cost effective hardware allows for performance data to be gathered from HVAC, renewable energy, and other building systems and sent to PowerWise web based servers where advanced analytics can be accessed remotely from any web based device.

Plug and play functionality removes the need to programming and long install times reducing overall install costs compared to building management systems. The inGate supports Modbus RTU, Zigbee 3.0, and Z Wave endpoint devices. Power Wise has also developed many I/O devices to support analog and digital signals.

### APPLICATIONS

- **Renewables:** Inverters, Solar thermal production, Irradiation
- **Utilities:** Electricity, Water, and Gas Metering
- **Environmental:** Indoor Air Quality, Weather

- **Performance Verification:** Ground Source Heat Pumps, Mini-Split Heat Pumps
- **Tenant Sub Metering:** Utility, Central Heating
- **System Controls:** Boiler, Lighting, Thermostats

### SPECIFICATION:

| | |
|---|---|
| **Processor**: | 80 MHz 32 bit micro processor |
| **Memory:** | 4 GB SD Card Storage |
| **LEDS:** | Status & Link |

### COMMUNICATION:

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|---|---|
| **Protocols**: | Modbus RTU, Zigbee 3.0, Z-Wave |
| **LAN:** | RJ45 10/100 Ethernet, full/half duplex, auto polarity |

### POWER:

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|---|---|
| **Input:** | 9 - 30 VDC, 2000 mA |
| **Output:** | 9 - 30 VDC, 2000 mA & Regulated: 5 VDC, 750 mA |

### INPUTS:

| | |
|---|---|
| **Serial Port:** | RS-485 Modbus RTU |
| **Radio :** | Zigbee 2.4 GHz (IEEE 802.15) & Z-Wave 908.42 MHz (ITU-T G.9959) |

### PHYSICAL:

| | |
|---|---|
| **Weight:** | 0.325 lbs |
| **Size:** | 4.25" x 4.25" x 2.125" |
| **Environmental:** | *Temperature*: -40°C to 60°C (-40 to 140°F) |
| | *Humidity*: 0-95% Non-Condensing |

### CERTIFICATIONS: ROHS