

Technical Data Sheet

ProtoAir Gateway

AERCO's ProtoAir Gateway is a versatile, multi-protocol communications gateway designed to seamlessly integrate with building control and energy management systems¹. It is compatible with all AERCO boilers, water heaters², and electronically controlled indirect systems, and it is ideal for a wide range of settings, including commercial buildings, industrial facilities, and institutional environments.

ProtoAir Gateway can support optimized energy usage and reduce costs. It offers real-time performance monitoring and remote access capabilities for proactive maintenance and minimal downtime. Additionally, its seamless integration with an existing BAS simplifies upgrades and enhances overall system performance.



Features

Wide Compatibility: Supports boilers or water heaters with an Edge³ or C-More controller, as well as AERCO's Modulex EXT boilers, AM Series boilers and water heaters, SmartPlates, and electronically controlled indirect water heaters.

Comprehensive Control: Manage up to 16 units per gateway in sequenced heating or hot water plants. Control points include set point, fire rate, outlet temperature, unit status, run cycles, and run hours.

Auto Discovery: Automatically detects RS-485 supported devices, allowing up to 32 AERCO nodes to be connected through a single gateway.

Reliable Performance: Non-volatile memory retains point mappings and programs even in the event of power loss.

User-Friendly Configuration: Connect to the ProtoAir network via Wi-Fi and access the web configurator through a browser to set protocols and other configuration parameters.

Easy Installation: Effortlessly mount ProtoAir using the included DIN rail bracket on the back of the unit, fitting directly into the communications control panel.

Approvals: BTL, Modbus, FCC, CE, DNP, WEEE, RoHS, REACH, UKCA and ODVA.



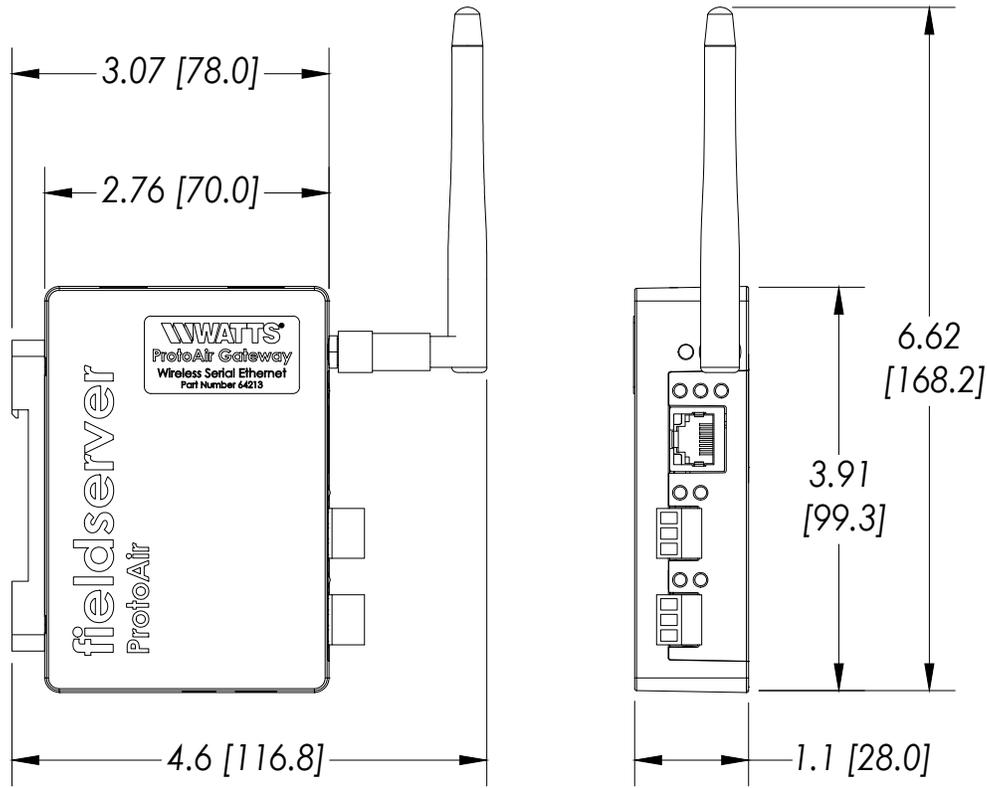
¹Protocol Support: Integrates with BACnet® IP, BACnet MS/TP, Johnson Controls Metasys N2 systems, Modbus TCP/IP, and Modbus RTU.

²Helitherm, U-Tube style, and SmartPlate water heaters must be equipped with the company's Electronic Control System

³Edge [i] needs ProtoAir to communicate with BAS for BACnet MS/TP OR Modbus RTU protocols and Edge [ii] does not need ProtoAir.

Dimensions

AERCO/ProtoAir (Kit 69281-3)



Specifications

1 - 3 pin Phoenix connector with:
RS-485/RS-232 (Tx+ / Rx- / gnd)

1 - 3 pin Phoenix connector with:
RS-485 (+ / - / gnd)

1 - 3 pin Phoenix connector with:
Power port (+ / - / Frame-gnd)

1 - Ethernet 10/100 BaseT port

Power Requirements

Input Voltage: 12-24VDC or 24VAC

Max Power: 3 Watts

Current draw: 24VAC 0.125A

12-24VDC 0.25A @12VDC

Wi-Fi 802.11 b/g/n:

Frequency: 2.4 GHz

Antenna Type: SMA

Channels: 1 to 11 (inclusive)

Encryption: TKIP, WPA2 & AES

Operating Temp: -20°C to 70°C (-4°F to 158°F)

Humidity: 10-95% RH non-condensing

Dimensions: 4 x 1.1 x 2.7 in (10.16 x 2.8 x 6.8 cm)

Weight: 0.4 lbs (0.2 Kg)

Warranty: 12 months



Heating and Hot Water Solutions

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