

## Technical Data Sheet

# ProtoNode Gateway

AERCO's ProtoNode Gateway is a multi-protocol, communications gateway that supports integration with customers' building control and energy management systems\*. It's available for all AERCO boilers, water heaters\*\* and electronically controlled indirect systems.

The gateway is easily installed using mounting tabs or the included DIN mount adapter directly into the site's communications control panel. Configurations are preloaded on both gateways so the installer simply selects the protocol and hardware configuration via the DIP switches. The BACnet gateway is BTL Marked and the LonWorks gateway is LonMark compliant.

This version of the gateway has an Auto-Discovery feature with a learn mode in order to build a table of AERCO equipment in your heating plant. You can connect up to 32 AERCO nodes through one gateway on your network. The ProtoNode Gateway is compatible with:

- Edge and C-More controlled boilers or water heaters
- AERCO Modulex EXT boilers
- AM Series boilers and water heaters
- SmartPlates or electronically controlled indirect water heaters
- ACS (one dedicated to control the Edge/C-More and another to control the Modulex systems)

WHM or BST heating plants are limited to eight Edge/C-More units per gateway. A list of standard control points for each category of equipment includes set point, fire rate, outlet temperature, unit status, run cycles and run hours. The Auto-Discovery function does not apply to the WHM or BST configurations. When linking to a Modbus building automation system, an AERCO/ProtoNode is required if using a WHN or BST system.

\*Supports integration with BACnet®/ IP, BACnet MS/TP, LonWorks®, and Johnson Controls Metasys N2 systems and Modbus

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

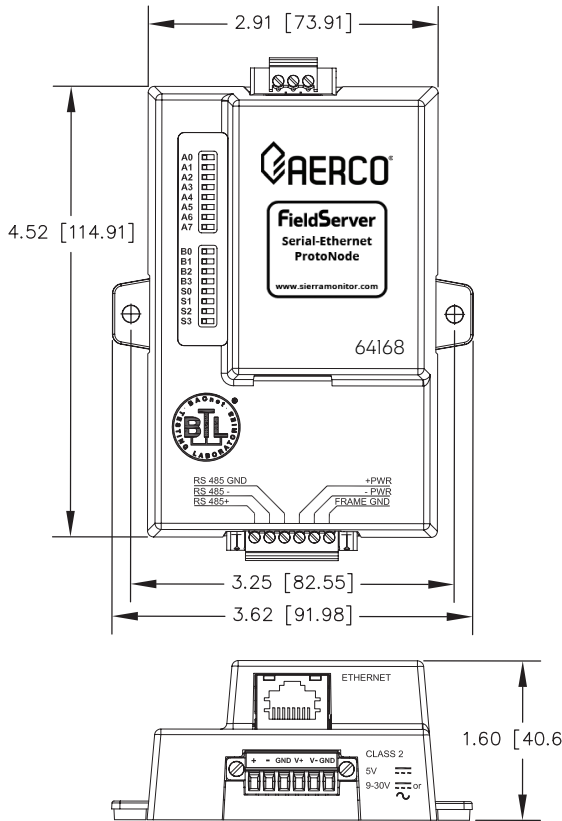


## Features

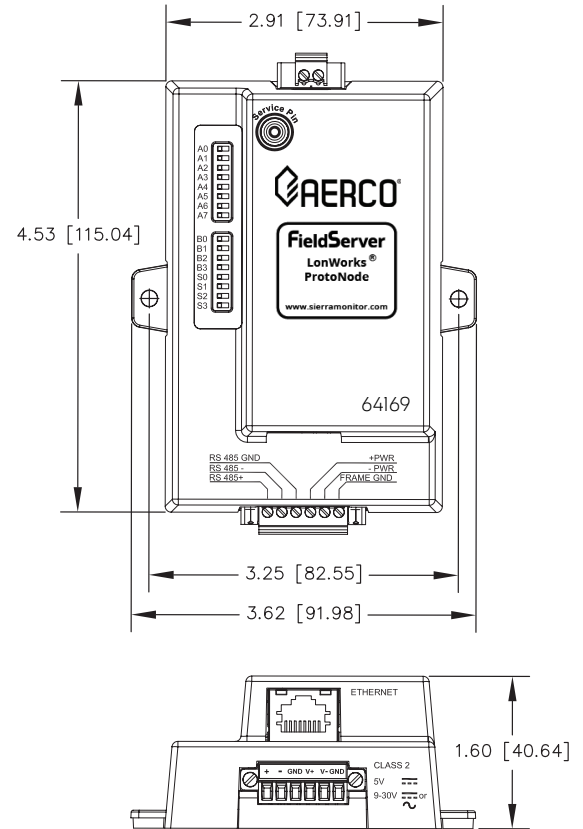
- Built-in translation for BACnet/IP, BACnet MS/TP, LonWorks, Metasys N2 and Modbus TCP Protocols
- Select protocol and baud rate in the field using simple DIP switch selection
- Non-volatile memory retains point mappings and programs in the event of power loss
- Approvals: BACnet Testing Labs (BTL) B-ASC on ProtoNode RER, CE Mark, LonMark 3.4 Certified on ProtoNode LER, TUV approved to UL 916

## Dimensions

AERCO/ProtoNode (Serial Ethernet, Kit 69281-1)



AERCO/ProtoNode (LonWorks, Kit 69281-2)



## Specifications

### Serial Ethernet:

- 1 - 6 pin Phoenix Connector
  - 1 RS-485 +/- Ground port
  - Power +/- Frame Ground port
- 1 - 3 pin Phoenix connector RS-485
  - 1 RS-485 +/- Ground port
- 1 Ethernet -10/100 Ethernet port

Power Requirements: 9-30 VDC or 12-24 VAC

Current draw: @ 12V

Serial Ethernet: @ 12V = 240 mA

LonWorks: @ 12V = 250 mA

### LonWorks:

- 1 - 6 pin Phoenix Connector
  - 1 RS-485 +/- Ground port
  - Power +/- Frame Ground port
- 1 Ethernet -10/100 Ethernet port
- 1 FTT-10 LONWORKS port

Operating Temp: -40oF to 187oF (-40oC to 85oC)

Relative Humidity: 5-90% RH, non-condensing

Dimensions: 4.52 x 3.25 x 1.60 inches

Warranty: Two (2) years return to factory



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