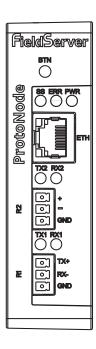
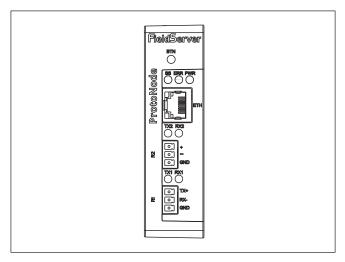


ProtoNode-RER-1.5K / ProtoNode-RER-10K

Multi-Protocol Device Server Initial Setup Guide





The nVent RAYCHEM ProtoNode-RER multi-protocol gateway is used to connect nVent RAYCHEM C910-485, TraceTek SIM, TraceTek TS-12 and ACS-30 Controllers to Building Management Systems (BMS) using BACnet or Metasys N2 protocol.

The ProtoNode-RER is pre-programmed with the nVent RAYCHEM Modbus registries for simple integration into your BMS. The nVent RAYCHEM ProtoNode-RER-1.5K is configured to communicate with up to 6 C910-485 controllers or an ACS-30 system up to 25 circuits or 255 TT-SIM modules or 6 TT-TS12s. The nVent RAYCHEM ProtoNode-RER-10K is configured to communicate with an ACS-30 system up to 170 circuits.

For technical support call nVent Thermal Management at (800) 545-6258.

TOOLS REQUIRED

Small flat-blade screwdriver

APPROVALS



ADDITIONAL MATERIALS REQUIRED

- Wall fasteners for surface mounting (four fasteners)
- RS-485 cable (Belden # 8761, or Carol # C2514)
- 9-30 Vac/Vdc power source recommended (5 Vdc also compatible)
- Appropriate nVent RAYCHEM controller Installation Instructions

For detailed configuration information, including a complete start-up guide and mapping documents, please contact your local sales rep or nVent Technical Support. Global support contact information is listed at the end of this document.

ADDITIONAL INFORMATION

The ProtoNode-RER gateways are highly flexible and accommodate the most commonly used protocol. They come pre-programmed with the Modbus mapping of the C910, TT-TS12, TT-SIM and ACS-30 controllers.

The set-up involves 4 steps:

- 1. Connect RS-485 to nVent RAYCHEM controller (Figure B)
- 2. Connect power supply to ProtoNode (Figure A)
- 3. Configure the communications settings through ProtoNode's Web Interface Configuration Parameters Page (you can refer to the ProtoNode Startup Guide)
- 4. Connect to the Field or BMS system after the completing steps 1-3 (Figure B)

Once the gateway is connected and configured the nVent RAYCHEM Modbus registries will be visible to the system integrator through the field BMS.

Communication set-up requirements for C910, TTSIM, TT-TS12 and ACS-30 controllers:

Protocol: Modbus-RTU (default for ACS-30)

Baud rate: Auto or 9600 Parity: None Modbus Address:

⚠ WARNING:

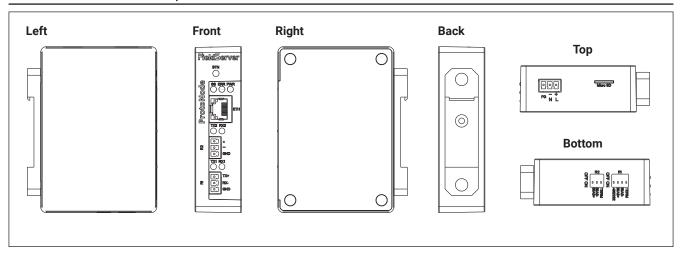
FIRE AND SHOCK HAZARD: Do not mount the ProtoNode-RER in a hazardous location. Follow all local electrical safety procedures. Disconnect power before servicing or opening this unit. For technical support, call nVent Thermal Management at (800) 545-6258.

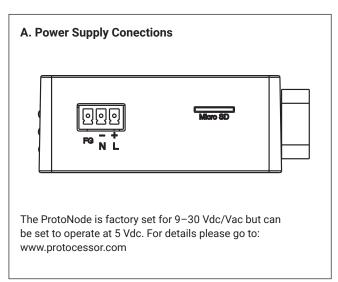
⚠ IMPORTANT:

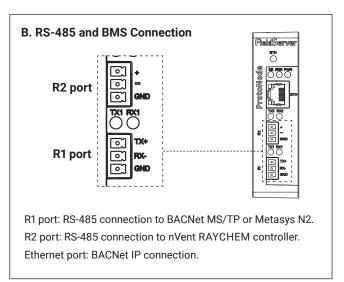
The ProtoNode-RER is an electronic unit. During installation, take the following precautions to avoid damage to its electronic components:

- Handle with care to avoid mechanical damage.
- Keep electronics dry.
- Avoid exposure to static electricity.
- Avoid contamination with metal filings, liquids, or other foreign matter.

PROTONODE-RER LAYOUT, TERMINALS AND SWITCH POSITIONS







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