

# 9. BACnet Introduction & Products

BACnet is a communications protocol for building automation and control networks. It is an ASHRAE, ANSI, and ISO standard protocol.



BACnet was designed to allow communication of building automation and control systems for applications such as heating, ventilating, and air-conditioning control, lighting control, access control, and fire detection systems and their associated equipment. The BACnet protocol provides mechanisms for computerized building automation devices to exchange information, regardless of the particular building service they perform.

## ✦ BACnet Features

- ✓ Designed specifically for building automation control
- ✓ Conformance to ANSI/ASHRAE Standard 135-2008 or ISO 16484-5
- ✓ A completely non-proprietary open communication software standard
- ✓ Support several different physical and link layers (BACnet/IP, Ethernet, ARCNET, MS/TP, PTP and LonTalk)
- ✓ All data in a BACnet system is represented in terms of "objects", "properties" and "services"
- ✓ Scalability and choice of compatibility with other systems and vendors

## Selection Guide

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## BACnet Gateway

### BACnet/IP Server to Modbus RTU Master Gateway

**GW-5492 CR**  
*Available soon*



GW-5492 is a fully configurable universal Modbus RTU to BACnet/IP gateway. The GW-5492 includes BACnet/IP Server and Modbus RTU Master which is used to make Modbus RTU devices accessible on a BACnet network.

- ✓ Quickly and Cost Effectively integrate networks
- ✓ Provide PWR/Communication Status indication LED
- ✓ Read/Write any standard Modbus registers via BACnet
- ✓ Fully Compliant with BACnet/IP Server and Modbus RTU Master
- ✓ BIBB (BACnet Interoperability Building Blocks) supported: DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B, DS-COV-B, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-TS-B, DM-UTC-B, DM-RD-B
- ✓ BACnet object supported: AI, AO, AV, BI, BO, BV, MSI, MSO, MSV
- ✓ Supports Modbus coils, input register, holding registers
- ✓ Baud rates supported: 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps
- ✓ No Programming Required
- ✓ Modbus register mapping table configured via web interface

### BACnet/IP Server to Modbus TCP Client Gateway

**GW-5493 CR**  
*Available soon*



GW-5493 is a fully configurable universal Modbus TCP to BACnet/IP gateway. The GW-5493 includes BACnet/IP Server and Modbus TCP client which is used to make Modbus TCP devices accessible on a BACnet network.

- ✓ Quickly and Cost Effectively integrate networks
- ✓ Provide PWR/Communication Status indication LED
- ✓ Read/Write any standard Modbus registers via BACnet
- ✓ Fully Compliant with BACnet/IP Server and Modbus TCP Client
- ✓ BIBB (BACnet Interoperability Building Blocks) supported: DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B, DS-COV-B, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-TS-B, DM-UTC-B, DM-RD-B
- ✓ BACnet object supported: AI, AO, AV, BI, BO, BV, MSI, MSO, MSV
- ✓ Supports Modbus coils, input register, holding registers
- ✓ 10/100 Base-TX Ethernet Controller
- ✓ No Programming Required
- ✓ Modbus register mapping table configured via web interface

