XPC Extended Protocol Converter

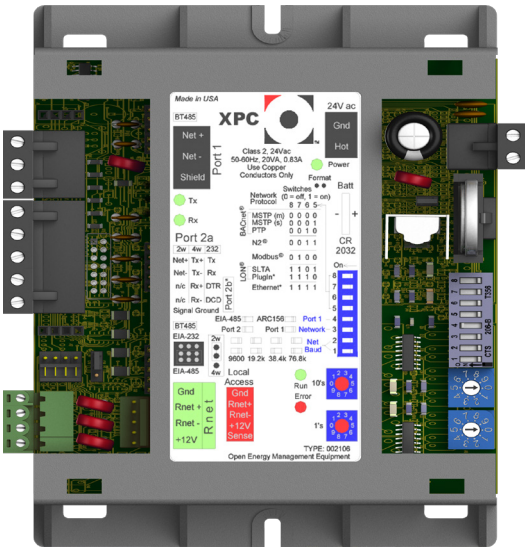
The XPC (Extended Protocol Converter) provides protocol conversion to multiple equipment devices. It can convert between two open protocols for instance from Modbus to BACnet, or from a proprietary protocol to an open protocol, to allow for integration with virtually any Building Automation System. One of the unique things about the XPC is the ability to select the open protocol you want to use for interfacing with the BAS (building automation system) with the simple flip of a DIP switch. Choose from BACnet, Modbus, N2 Bus, or LonWorks. The other port is configured through software to connect to one or more third-party devices using any of the supported protocols.

Key Features and Benefits

Performance / Hardware

- Built-in protocol support: BACnet (ARC156, MS/TP, and PTP), Modbus (RTU and ASCII), N2, and LonWorks
- DIP switch configuration and selection of the built-in protocols to a BAS
- Custom-programmable using our powerful Eikon graphic programming tool. Eikon allows you to create graphic logic sequences for your application, which can be fully simulated off-line (with Eikon's simulation tool), and graphically viewable live on your equipment using Live Logic in WebCTRL® for OEMs or Field Assistant.
- Built-in support for OEMCtrl's Equipment Touch line of touchscreen displays
- Supports OEMCtrl's line of communicating ZS sensors
- Provides local laptop computer access port

XPC

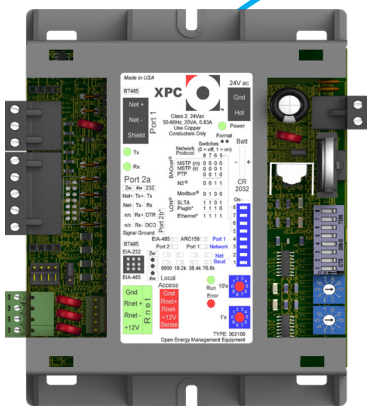


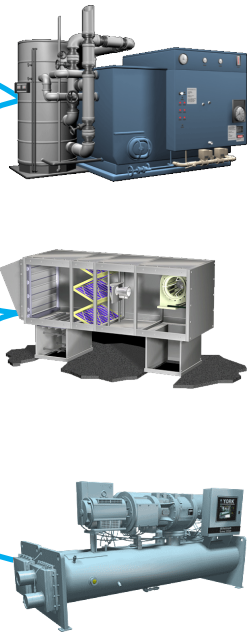
BACnet

Modbus

N2

LonWorks



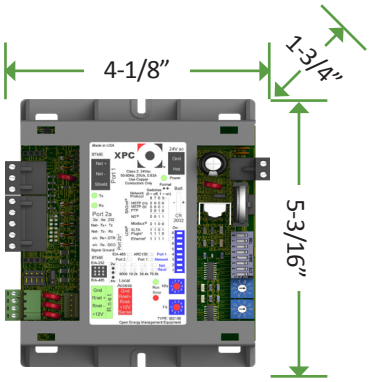


OEMCtrl®

1025 Cobb Place Boulevard, Kennesaw, GA 30144 | 770-429-3060 | oemctrl.com

Specifications

Power	24 Vac / 24 Vdc ±10%, 50-60 Hz, 10 VA, single Class 2 source only
Operating Range	--20° to 140°F (-29° to 60°C); 10 to 95% relative humidity, non-condensing
Communication Ports **BACnet** **Modbus** **N2** **Lonworks**	**Port 1a**: Jumper-configurable for ARC156 or EIA-485 communication. In ARCNET mode, the port speaks BACnet (at 156k bps). In EIA-485 mode, the communication protocol and baud rate desired are DIP switch selectable between BACnet MS/TP, Modbus RTU, or N2 **Port 2**: Jumper configurable for EIA-485 mode or EIA-232. Supports communication protocols BACnet MS/TP, BACnet PTP, Modbus (RTU or ASCII), N2, or LonWorks (through an SLTA) **Lon Option Port**: LonWorks Option Card for connection to Free Topology LON networks (TP/FT-10 Channel) **RNET**: ZS Communicating sensors or computer local access connection
Status Indication	Visual (LED) status of power, network communication, running, and errors
Protection	Built-in surge transient protection circuitry. Controller protected by internal solid state polyswitches on incoming power and network connections. Polyswitches do not need to be replaced, as they will reset themselves once the condition that caused them to "trip" returns to normal.
Battery	Battery CR123A has a life of 10 years with 720 hours of cumulative power outage
Compliance/Listing	**BACnet**: Conforms to the BACnet Advanced Application Controller (B-AAC) Standard Device, as defined in BACnet 135-2001 2012 Annex L and tested to Protocol Revision 9 **United States**: FCC compliant to Title CFR47, Part 15, Subpart B, Class A; UL Listed, File E143900; CCN PAZX, UL 916, Energy Management Equipment; **ANZ**: RCM Mark AS/NZS 61000-6-3; **Canada**: UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant ICES-003, Class A; **CE Mark** Compliant with 2014/30/EU, and **RoHS** Compliant: 2015/863/EU; **UKCA Mark** compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012.
Physical	Screw mounting Minimum panel depth: 2.25 in. Rugged GE C2950 Cycoloy plastic



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