

BACnet/IP Client to PROFIBUS DPV0 Slave Gateway 5205-BACNET-PDPS

The ProLinx[®] BACnet/IP Client to PROFIBUS DPV0 Slave Gateway creates a powerful connection between a PROFIBUS Master and BACnet/IP devices. This stand-alone DIN-rail mounted protocol gateway provides a PROFIBUS Slave port and a single Ethernet port.

The ProLinx BACnet/IP (Building Automation and Control networking) protocol version is designed specifically to meet the communication needs of building automation and control systems for applications such as heating, ventilating, and air-conditioning control, lighting control, access control, and fire detection systems with limited BACnet/IP command support.

The PROFIBUS Slave protocol supports the DPV0 implementation, providing powerful data transfer capability between the ProLinx module and a PROFIBUS DP master.



Features	Benefits
Powerful network integration	<ul style="list-style-type: none"> ◆ Communicate between dissimilar networks ◆ Shared database exchanges information from devices on both networks ◆ View diagnostics between both networks
BACnet I/P Client	<ul style="list-style-type: none"> ◆ Standard protocol for Building Automation and Control limited to Analog and Digital I/O commands ◆ Communicate with Building Automation controllers, HVAC, Fire and Safety equipment ◆ Support for Trane Building Control Unit (BCU)
PROFIBUS DPV0 Slave	<ul style="list-style-type: none"> ◆ Adds BACnet/IP device monitoring and control to a PROFIBUS DP network ◆ Easy configuration - GSD file provided ◆ 122 words input/122 words output, 200 words maximum I/O
Backed by ProSoft Technology [®]	<ul style="list-style-type: none"> ◆ Industrial data communications experts who understand your protocols, devices, and applications ◆ Three year standard warranty

Configuration

ProSoft Configuration Builder (PCB) provides a PC based software configuration solution for quick and easy way to manage all ProSoft Technology modules configuration files and view module and network diagnostics. The module provides a convenient Ethernet configuration port for down/up loading configuration files, viewing diagnostics data and FDT PROFIBUS comDTM pas-thru communication when using specific slave DTM software.

General Specification

The ProLinx® Communication Modules provide connectivity for two or more dissimilar network types. The modules, encased in sturdy extruded aluminum, are stand-alone DIN-rail mounted protocol gateways, providing communication between many of the most widely used protocols in industrial automation today.

- Ethernet Configuration Port serves as a dual BACnet/IP Client application port
- DIN to DB-9M serial port cable included per configurable serial port

BACnet/IP Client

- The BACnet driver supports a single UDP client to interface with one or more devices that contain a BACnet/IP server
- The ProLinx BACnet/IP driver implements a limited subset of the BACnet/IP protocol primarily used with the Trane BCU
- The module controls the read/write data transfer between the gateway and other BACnet/IP devices

PROFIBUS DPV0 Slave

- Input and Output data blocks are mapped by the user within the ProLinx module's data memory allowing the user maximum flexibility and data transfer with other protocols.
- A standard PRLX05A5.GSD file is provided on the Product CD
- Baud rate communication parameters: 9.6 kbps to 12 Mbps
- Status Data Error codes available on an individual command basis

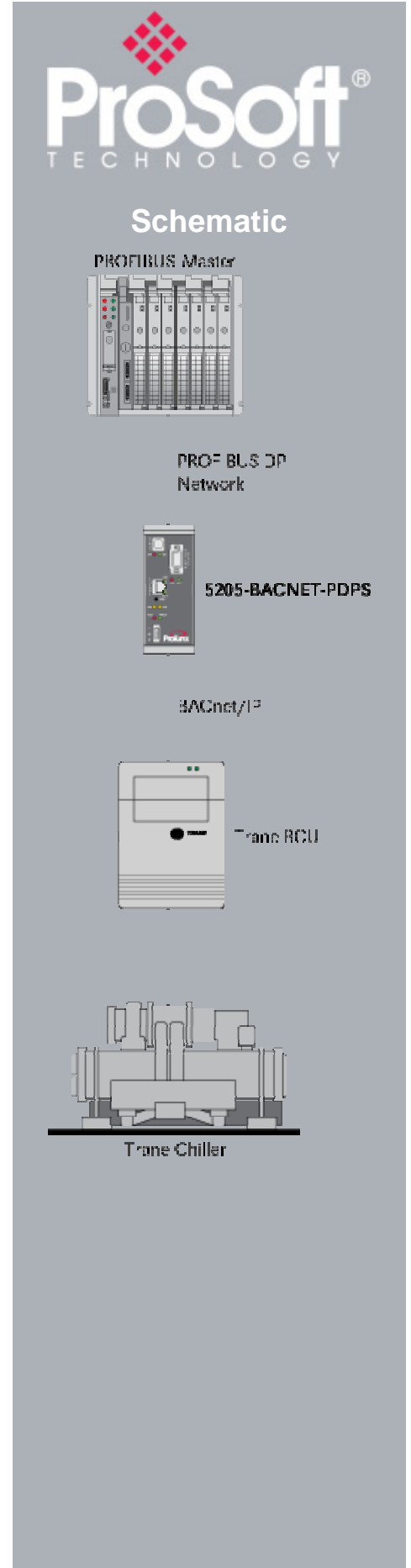
Functional Specification

BACnet/IP Client

General	One client
Command List	Support for 100 commands, each configurable for command, IP address, register to/from addressing and word/bit count.
Service Port	1 to 65535
Function Code (limited)	12=Read Single Property 14=Read Multiple Properties 15=Write Single Property 16=Write Multiple Property
Data Type (limited)	0=Analog Input 1=Analog Output 3=Binary Input 4=Binary Output
Point Count	1 to 25

PROFIBUS DPV0 Slave

Slave configurable parameters	PROFIBUS Node Address: 1 to 125 Data byte swapping Failsafe Action Communication Failure Mode
Supported I/O length	244 bytes Input data 244 bytes Output data 400 bytes total



PROFIBUS DPV0 Support	Siemens SPC3 chipset Freeze Mode Sync Mode Auto Baud Setting
Read/Write Mailbox Commands	Commands allowing 1800 extended I/O data bytes

Hardware Specifications

Specification	Description
Power Supply	24 VDC nominal 18 to 32 VDC allowed Positive, Negative, GND Terminals 2.5 mm screwdriver blade
Current Load	500 mA max@ 32 VDC max
Operating Temperature	-20 to 50°C (-4 to 122°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5% to 95% (non-condensing)
Dimensions	Standard: 5.20H x 2.07W x 4.52D in. (13.2cmH x 5.25cmW x 11.48cmD) Extended: 5.20H x 2.73W x 4.52D in. (13.2cmH x 6.934cmW x 11.48cmD)
LED Indicators	Power and Module Status Application Status Serial Port Activity LED Serial Activity and Error LED Status
BACnet/IP and Configuration Ethernet Port	10 Base-T half duplex RJ45 Connector Link and Activity LED indicators Electrical Isolation 1500 V rms at 50 Hz to 60 Hz for 60 s, applied as specified in section 5.3.2 of IEC 60950: 1991 Ethernet Broadcast Storm Resiliency = less than or equal to 5000 [ARP] frames-per-second and less than or equal to 5 minutes duration
PROFIBUS Slave Port	RS485, max. 12 MBit/s, isolated, EN 50170
Shipped with Each Unit	6 Ft. Ethernet cable 6 ft. Ethernet crossover cable CD (docs and Configuration utility)

Agency Approval & Certification

ISA	ISA 12.12.01 Class 1 Div 2
CSA/cUL	C22.2 No. 213-1987



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Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

Ordering Information

To order this product, please use the following. If you are unsure which product to select, please contact your local distributor.

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5205-BACNET-PDPS

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