460MY

REAL TIME AUTOMATION

Cummins PCC3201 Controls on BACnet/IP

FEATURES

- *Fully Compliant BACnet/IP Server*
- *Pre-loaded Cummins PCC3201 Modbus Profile*
- *PCC3201 Profile Includes Tag Names, Units, and Scaling Factors*
- *BACnet Analog Data Automatically Scaled per PCC3201 Profile*
- *Automatically Loads Modbus Register Map for PCC3201 Controls*
- *Support for up to 31 Cummins PCC3201 Devices*
- *Support for Function Code 1, 2, 3, 4, 6, 15, and 16*
- *Effortless Browser Based Configuration*
- *10/100 BaseT Operation*
- *Includes Ethernet Device Management Tool*
- *No Programming Required*

Get Your Cummins PCC3201 PowerCommand Data To Your Building Automation Systems

The 460MY moves power data between a group of Cummins PowerCommand PCC3201 Control devices and a BACnet/IP enabled Building Automation System (BAS). With energy costs rising and increased concern about energy and power quality, more and more building managers need access to the real time energy and power data collected by PCC3201 PowerCommand Controls. Managers want to access that data over BACnet/IP, the networking standard for commercial building automation. The 460MY is perfect for this task. In fact, it's been designed solely to move data from Cummins PCC3201 PowerCommand Controls to BACnet/IP based Building Automation Systems.

With the 460MY you have a device that you can quickly deploy and easily configure to access and integrate PCC3201 Controls into Building Automation Systems.

No Nasty Configuration Headaches

The 460MY comes pre-programmed ready to be integrated. A user editable profile automatically maps many of the important PCC3201 Modbus Registers to BACnet Analog points. You simply select the Modbus address for each PCC3201 device. If your application requires additional PCC3201 Registers, you can simply edit and reload the profile to access other PCC3201 data points. **In Most Apps There's No Need to Look at the PCC3201 Register List!**

Some BACnet Clients require more than just data values. To meet this need the PCC3201 profile includes tag names, unit designations and scaling factors for each PCC3201 register. These tag strings and automatic scaling factors are easily customized for your application by editing the PCC3201 profile.

Move Your Data Bi-directionally

You can both receive energy data from your Cummins PCC3201 devices and send new control parameters to the devices from your BACnet/IP Client.

Configure Your Data Transfer from a Web Page

No special software is required. The unit is completely configurable using your Browser.

The Legend Begins

"It's likely that your business isn't industrial networking. And it shouldn't be. You make products, products that do wonderful things. Whatever it is that you make the process creates data. If you're a control engineer and your plants been around for more than a few years your plant floor is probably littered with devices that send out all kinds of data, and in most cases data talking in a lot of different protocols. If you're an automation device developer you probably need to move your data into some other network. Either way, you've got a device conversion problem. You have devices that generate ASCII data, Modbus RTU, Ethernet TCP Data, DeviceNet data or some completely proprietary data and now you're the guy that has to move that data to some other network!

I feel your pain… and better than my sympathy I have a solution for you. You see while your business isn't moving data around the factory floor, mine is. In fact it is all we have done for more than twenty years now. Our 460 series of Device Converters is the culmination of those twenty years. You can now move all of your data, where you want, when you want and how you want. Best of all ***THE HARDEST PART IS OPENING THE BOX".***

John Rinaldi

It's Easy to Set Up

Sound complicated? It's not. Just Three Simple Steps!

ONE, Start by opening the web page for the device with Internet Explorer.

TWO, configure your BACnet communication parameters and select the Cummins PCC3201 button from the configuration page.

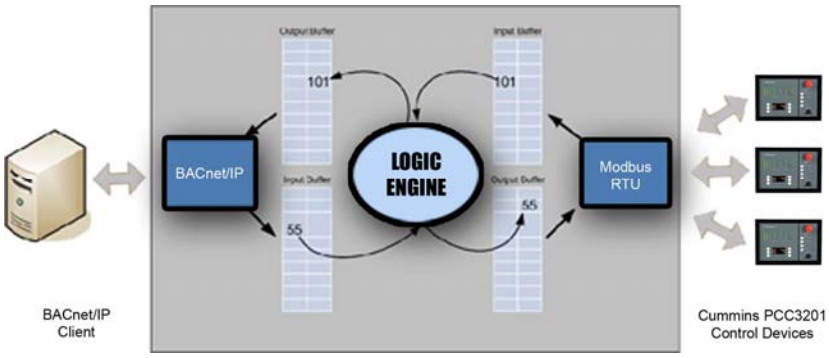
THREE, View the summary list of Modbus registers supported by the device and you're done!

Nothing complicated, and best of all it's browser driven.

NO SPECIAL SOFTWARE IS REQUIRED

How It Works:

The products in the Instant Device Converter product line contain an IEC standard control engine that moves your data from buffer to buffer. Input data from one network is moved to the output buffer of one or more other networks. Input data from those networks is moved to the output area of the other networks.



ENCLOSURE / HARDWARE	
Size	4.2" x 3.25" x 1"
Weight	5 oz.
Enclosure Type	Anodized Aluminum
Mounting	Din Rail
Connectors	Port 0: T-STRIP *(RS232,RS485/RS422,CAN)* Port 1: DB-9 *(RS232,RS485/RS422,CAN)* ***Only one RS232, RS485/RS422, or CAN port setting can be active per unit*** RJ45 10/100 Base-T (Ethernet) 2 Pin Barrel Connector
LEDs	*Ethernet Link/Data, Ethernet Speed, Power, and two general purpose LEDs*

ELECTRICAL/ENVIRONMENTAL/TOOLS	
Network Interface	10/100 Base-T with RJ-45 Connector
Power	8 V @ 230 mA to 28 V @ 80 mA
Maximum Serial Baud Rate	115K Baud
Device IP Address Management	**IPSetup™** — automatically locates RTA Instant Device Converters
Operating Temperature	-40 C to 85 C
Certification	RoHS-Compliant, UL, CUL, CE Approvals

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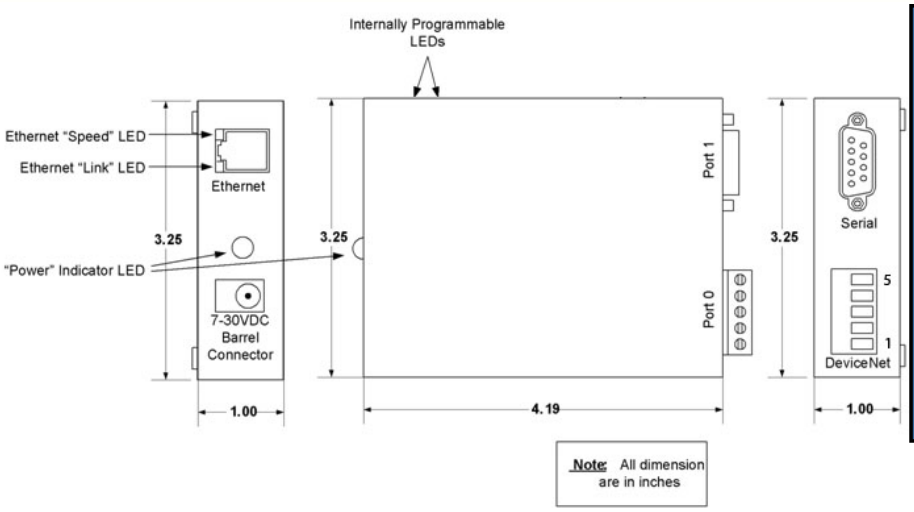
Parameters

Address	Parameter	Address	Parameter
40001	Name[0,1]	40025	Volts ca
40002	Name[2,3]	40026	Volts a
40003	Name[4,5]	40027	Volts b
40004	Name[6,7]	40028	Volts c
40005	Name[8,9]	40029	Amps a
40006	Name[10,11]	40030	Amps b
40007	Name[12,13]	40031	Amps c
40008	Name[14,15]	40032	Percent Amps a
40009	Device Type	40033	Percent Amps b
40010	Control Switch	40034	Percent Amps c
40011	State	40035	Battery Voltage
40012	Fault Code	40036	Oil Pressure
40013	Fault Type	40037	Oil Temp
40014	Percent kW	40038	Coolant Temp
40015	Total kW	40039	Misc Temp 1
40016	NFPA 110	40040	Misc Temp 2
40018	Frequency	40041	Fuel Rate
40019	Total pf	40042	Engine RPM
40020	Total kva	40043	Engine Starts
40021	Total kW	40044	Eng Runtime
40022	Total kvar	40046	Total kwh
40023	Volts ab	40048	Total Fuel
40024	Volts bc		

Dimensions



Connector Pin-Outs

PORT 1 (DB9)				
Pin	*RS-232*	*RS-485*	*RS-422*	*CAN*
1	CD	-	-	-
2	RX	TX-	TX-	CANL
3	TX	-	RX+	-
4	DTR	-	-	-
5	GND	GND	GND	GND
6	DSR	-	RX-	-
7	RTS	TX+	TX+	CANH
8	CTS	-	-	-
9	RI	-	PWRIN	PWRIN

PORT 0 (TStrip)				
Pin	*RS-232*	*RS-485*	*RS-422*	*CAN*
1	GND	GND	GND	GND
2	RX	TX-	TX-	CANL
3	TX	TX+	TX+	SHEILD
4	RTS	RX-	RX-	CANH
5	CTS	RX+	RX+	PWRIN

CATALOG #	DESCRIPTION
460MY	Cummins Power Command PCC3201 Controls to BACnet/IP

Sales & Service

PLACING YOUR ORDER

Orders can be placed 24 hours per day. You can place your order by faxing 262-439-4989 or emailing orders@rtaautomation.com.

TECHNICAL SUPPORT

Phone Support: 1-800-249-1612 during normal business hours
Email Support: Is available by emailing support@rtaautomation.com

Support for Other Industrial Networks

Versions of the ***460 Line of Instant Device Converters*** support a large number of industrial networks and more are being added. Every one of these are implemented using our simple web-based integration and configuration architecture found in all 460 Device Converters. Connect any number of protocols with the same easy integration and configuration the 460 Line of Device Converters is known for.

INDUSTRIAL NETWORK SUPPORTED			
ASCII RS232	Modbus RTU Slave	Raw TCP Client	EtherNet/IP Server
ASCII RS485	Modbus TCP Server	Raw TCP Server	EtherNet/IP Client
BACnet IP	Modbus RTU Master	CANopen Slave	DeviceNet Master
Modbus TCP Client	***** CALL ABOUT YOUR PROPRIETARY PROTOCOL *****		DeviceNet Slave

Proprietary Protocol Support

The ***460 Instant Device Converters*** can be customized for specific applications and proprietary communications. The logic engine supports five worldwide, open standard programming languages and provides maximum flexibility for controlling your data as it moves around your factory floor or building. Call for more information on adding custom code to a 460 gateway.

For More Information:
1-800-249-1612
products@rtaautomation.com

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