460MX

REAL TIME AUTOMATION

Square D Power Meters On BACnet/IP

FEATURES

- *Fully Compliant BACnet IP Server*
- *Pre-loaded Square D Modbus Profile*
- *Square D Profile Includes Tag Names, Units and Scaling Factors*
- *BACnet Analog Data Automatically Scaled per Square D Profile*
- *Support for up to Ten Square D Devices*
- *Supports Function Code 3,4,5,6 and 16*
- *Effortless Browser Based Configuration*
- *Web Based HMI (optional)*
- *10/100 BaseT Operation*
- *Includes Ethernet Device Management Tool*
- *No Programming Required*

Get Your Square D Power Meter Data on BACnet/IP

The 460MX moves power and energy data between one or more Square D Power Meters and BACnet/IP Clients like Johnson Controls Metasys. 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 Schneider Electric Square D Meters. Managers want that to access that data over BACnet/IP the networking standard for commercial building automation. The 460MX is perfect for this task. In fact, it's been designed solely to move data from Square D Meters to BACnet-based Building Automation systems.

With the 460MX you have a device that can be quickly deployed and easily configured to integrate Square D Power Meter into Your BACnet Building Automation System.

No Nasty Configuration Headaches

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

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

Move Your Data Bi-directionally

You can both receive energy data from your Square D Power Meter and send new control parameters to the Meter 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 case 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 line 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 from any browser. All you need to do is simply enter the IP address of the gateway.

TWO, configure your BACnet communication parameters and select the Square D from the Modbus power meter pull down menu.

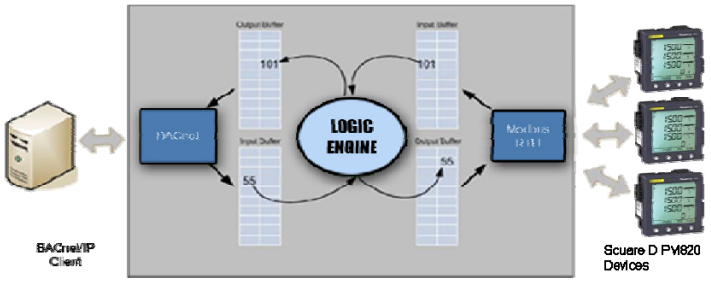
THREE, View the summary list of Modbus registers supported by the device and you're done!

No complicated procedures 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 a 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.



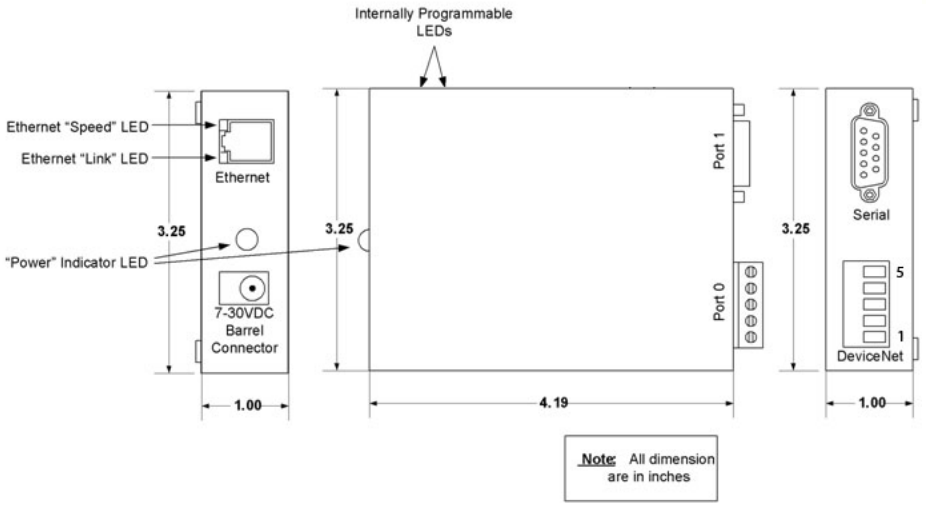
ENCLOSURE / HARDWARE	
Size	4.2" x 3.25" x 1"
Weight	5.4 oz.
Enclosure Type	Anodized Aluminum
Mounting	Din Rail
Connectors	Port 0: TSTRIP (RS232, RS-485, CAN) Port 1: DB-9 (RS232, RS485, CAN) *(Only one RS232, RS485, or CAN port setting can be active per unit. For example, a unit cannot have two ports set for RS232 or two ports set for CAN.)* RJ45 10/100 Base-T (Ethernet) Barrel Power Connector (2.1mm P5)
LEDs	Ethernet Link/Data LED, Ethernet Speed LED, Power LED, & 2 general purpose LEDs on side.

CONTROL LOGIC	
Specification	IEC 61131-3
Supported Logic Types	Ladder Logic, Instruction List, Function Block Programming, Structured Text, and Sequential Function Chart
Application Debug & Monitoring	Included
Visualization Access	Remote Browser
Data Typing	Strong Data Typing

ELECTRICAL/ENVIRONMENTAL	
Network Interface	10/100 BaseT with RJ-45 Connector
DC Input Voltage	8 V @ 230 mA to 28 V @ 80 mA
Power Adapter	1.2 A @ 7.5 VDC
Maximum 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

REAL TIME AUTOMATION

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
460MX	Square D Power Meter to BACnet/IP

Sales & Service

PLACING YOUR ORDER

You can place your order by faxing 262-439-4989 or emailing orders@rtaautomation.com.

TECHNICAL SUPPORT

Phone Support: 1-800-249-1612
Email Support: 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
sales@rtaautomation.com

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