## RTA
### REAL TIME AUTOMATION

**Contact Us!**
1-800-249-1612
www.rtautomation.com

**Real Time Automation** Gateways

# 460MRSDFM-NNA4

## Connect a Modbus RTU Master to Serial DF1 PLCs

# FEATURES

- Fully configurable Modbus RTU Slave

- Move up to 100 Groups of 512 Contiguous Coils or 512 Contiguous Registers to or from your Modbus RTU Master

- Support for PLC5, SLC and MicroLogix PLCs

- Connect up to 32 DF1 Serial Devices

- Effortless Browser Based Configuration, no programming software is required

- Simple data translation allows you to manipulate data as it passes between protocols

- Guaranteed Stock

- 5-Year Hardware Warranty

### Connect Your DF1 PLC5, SLC or MicroLogix PLC To a Modbus RTU Master Device

Your legacy Allen-Bradley serial PLC can now communicate with a Modbus RTU Master.

It's the perfect tool to save legacy PLCs from the scrap pile and extend
their useful life.

### How do I use 460MRSDFM-NNA4 in my application?

Modbus Register and Coil data is mapped to Files in the PLCs data tables. For example, you can map N7:200 to Modbus Register 40200 to be read by your Modbus Master. Bi directional data transfer is supported.

It really is that simple.

### Why Use Real Time Automation as a Gateway Supplier?

While there are certainly other companies offering protocol gateways, there is no one who provides the level of support and service that you receive from RTA.

When you call, a live person answers the phone. When you talk with sales, you will get honest answers and recommendations. When you get support, it is from an engineer who had a hand in the product's development, and support doesn't require a ticket or 24-hour wait.

### Try the RTA difference today! Call us at 800-249-1612 or check out our solutions at www.rtautomation.com.

*A Solution, A Philosophy, the RTA Way.* We understand the long hours spent on a factory floor and the pressure to keep a line running and product flowing. That's how Real Time Automation came to be. You want easy-to-use solutions where the hardest part is to open the box. You need customer support second to none. If you get all that and a fun customer experience, all the better. Thirty years later, our mission remains the same: **to move your data where you need it, when you need it and how you need it.**

**Modbus RTU Slave FEATURES**

| | |
|---|---|
| Operation Mode | Modbus RTU Slave |
| Function Codes Supported | 1,2,3,4,5,6,15 & 16 |
| Swapping | Byte and Word Swapping |
| Maximum Modbus RTU Master Connections | 1 |
| Contiguous Data Areas | 200 Total - 100 reads & 100 writes |
| Data Area Limits | 512 Contiguous Coils or 512 Contiguous Registers |

**DF1 Master FEATURES**

| | |
|---|---|
| Operation Mode | DF1 Master Full Duplex and DF1 Master Half Duplex |
| PLCs Supported | MicroLogix 1000, SLC 5/03 5/04 5/05, most PLC5s |
| Maximum number of Devices supported | 1 in Full Duplex Mode, 32 in Half Duplex |
| Data Type Supported | 100 Integers or 100 Binaries, or 50 floats, 82 character string per Scan line |
| Scan Lines | 100 input / 100 output |
| Physical Connections | RS485 and RS232 |

**INCLUDED WITH GATEWAY**

| | |
|---|---|
| 3' power cable with flying leads | 5-year hardware warranty |
| IPSetup software – automatically locates RTA gateway on the network | Unlimited firmware feature upgrades for life |
| CAT5 crossover cable for direct connection to PC during programming | Complete, unlimited access to our industry leading support staff |
| Manual | |

**ELECTRICAL / ENVIRONMENTAL**

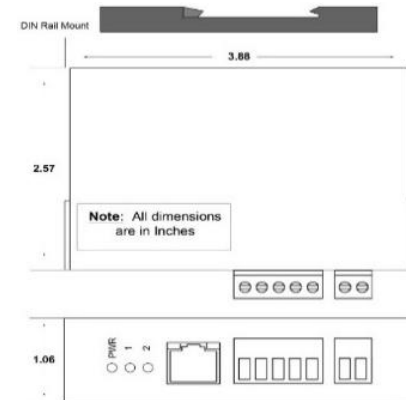| | |
|---|---|
| DC Input Voltage | 12-24 VDC |
| Maximum Baud Rate | 115K baud |
| Operating Temperature | -40 C to 85 C |
| Certification | RoHS-Compliant, UL, CUL, CE Approvals |

**ENCLOSURE / HARDWARE**

| | |
|---|---|
| Size | 3.88″ x 2.57″ x 1.06″ |
| Weight | 5.5 oz |
| Enclosure Type | Anodized Aluminum |
| Mounting | Din rail or panel mount |
| LEDs | Power LED & 2 general purpose LEDs on side |

**GATEWAY FEATURES & FUNCTIONS**

| | |
|---|---|
| Alarming | Set <, <=, >, >=, ==, !=, and change-of-state rules on any data moving through the gateway. If alarm rule is triggered an email notification can be sent. |
| Gateway Security | You can configure up to 9 different users access to diagnostic and configuration screens. |
| Translation Table | Allows for data manipulation during protocol translation. Scaling and other data format changes can occur in the gateway. |
| Status and Counters | Protocol specific status, counters, and error messages are accessible within the gateways diagnostics page. They can also be delivered to a connected device. |
| Diagnostic Logging Page | Allows users to see and log start up sequences, protocol specific messages & error messages. |

**DIMENSIONS**



DIN Rail Mount
3.88
2.57
Note: All dimensions are in Inches
1.06   PWR

**NOT EXACTLY WHAT YOU WERE LOOKING FOR?**

Real Time Automation offers a full line of gateway products. If this is not the one you were looking for, give us a call at 1-800-249-1612. Or, check out a listing at www.rtautomation.com/products. We also offer custom gateways to help customers dealing with unique needs or proprietary protocols.

| CATALOG # | DESCRIPTION |
|---|---|
| 460MRSDFM-NNA4 | Connects a Modbus RTU Master with as many as 32 DF1 Slaves |

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Made in the **u.s.a.**

Always In **stock**

Ready to **Ship**

Expert **Support**

FIVE YEAR **5** WARRANTY

**Real Time Automation, Inc.**          solutions@rtautomation.com          1-800-249-1612