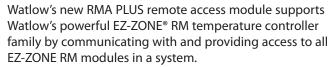


# RMA PLUS Remote Access Module

Watlow's New RMA PLUS Remote Access Module Offers Plug and Play Access to Powerful EZ-ZONE® RM Family



EZ-ZONE RMA users have had to spend more time than desired to connect their entire system. Now the RMA PLUS offers standard state-of-the-art connectivity from the device to the entire system. Real-time communication is possible via a built-in Ethernet switch or USB. Users can also connect to third-party and legacy devices because the RMA PLUS acts as a gateway between Modbus® TCP and Modbus® RTU.

The device comes standard with a built-in managed Ethernet switch with two Ethernet jacks. Up to three Modbus® TCP sessions, three Watbus over Ethernet sessions and one Watbus over USB session is available in a single device. Users can also log up to 16 gigabytes of data standard or upgrade to a maximum of 32 gigabytes. Configuration and data logs are available as Windows® files so they can be easily accessed. In addition, discovery and transfer speeds have gone from minutes with the legacy EZ-ZONE RMA to just seconds with the RMA PLUS.

Because the RMA PLUS is an essential component of the EZ-ZONE RM family, users receive all the benefits and support of working with Watlow®.



# **Features and Benefits**

# Plug and play access to EZ-ZONE RM family

· Integrates easily into existing systems

#### **Built-in Ethernet switch**

- Eliminates the need to provide a switch for small systems
- · Offers port mirroring for troubleshooting
- Protects from broadcast and multicast storms

## Integrated USB connection

- Provides easy connection from PC with no converter
- Ensures real-time communication from software packages

## EtherNet/IP® Server Option

- Allows users to set up implicit and explicit messaging for reading and writing values and settings
- Connects to programmable logic controllers and other third-party devices

## Modbus® TCP and Modbus® RTU

- Allows users to build tables based on individual needs
- Connects to third-party and legacy devices

## **Data logging**

Offers users the opportunity to log any data point in the system

## **TFTP (Trivial File Transfer Protocol) client**

 Automates archiving of data log files with user supplied TFTP server

# MQTT (Message Queuing Telemetry Transport) client

- Standard messaging protocol for the Internet of Things (IoT)
- Allows publishing of data to other clients

## **Customizable default settings**

 Loads your RMA PLUS parameter settings whenever the device is reset to factory defaults







# **Specifications**

# (Select a RMA PLUS module for communication protocol options, data logging and system configuration) Interoperable with:

- EZ-ZONE RM (C, E, H, L, S) version 9.0+ (inter-module bus)
- EZ-ZONE RM (A, C, E, H, L, S) (Watlow standard bus)
- EZ-ZONE PM, RUI, ST (Watlow standard bus)
- EZ-ZONE RM (F, G, UH, Z)
- POWERGLIDE®
- ASPYRE® AT

## Line Voltage/Power

- · Power consumption: 4 W, 9VA
- · Any external power supply used should comply with a Class 2 or SELV rating

#### **Isolated Serial Communications**

• All modules ship with standard bus protocol for configuration and communication connection to all **EZ-ZONE** products

#### **Standard Communication**

- Standard bus over Ethernet (gateway to inter-module bus)
- Standard bus over USB (gateway to inter-module bus)
- Standard bus via serial ('C' connector)
- Modbus® TCP
- Telnet server for standard IT diagnostics
- DNS (Domain Name Server) client maintains connection in applications with dynamic IP addresses

## **Additional Communication Options**

- EIA 232/485, Modbus® RTU
- EtherNet/IP<sup>™</sup> server

#### **USB**

- USB 2.0 device
- Mini USB connector type
- Recognized as a composite device: vendor specific and mass storage classes
- USB host (future option)

## **Real Time Clock with Battery Backup**

- Accuracy (typical): +/- 30 PPM at 77°F (25°C)
- +30/-100 PPM overtemperature operating range
- Battery type and typical lifetime rating: 10 years at 77°F (25°C)
- Lithium battery used, recycle properly

### **Data Logging**

- Maximum of 2000 valid records
- Maximum of 500 unique data points per bus
- File storage on embedded micro SD memory
- Comma separated value (CSV) file type
- Access log files via USB device port

**Future** 

**Option** 

A

#### **Memory Card**

- Micro SDHC (4-32GB)
- 4GB class 4 SDHC on standard models (operating temperature: -25 to 85°C)
- 16GB class 10 SDHC on data log models (operating) temperature: -40 to 85°C)
- -4 to 185°F (-20 to 85°C) ambient rating, non-volatile

Note: All module parameters are backed up in memory.

**Future** 

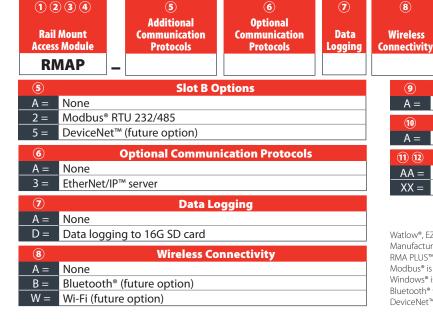
**Option** 

A

# **Configuration Code**

Module for communications, data logging and storage. Comes standard with Modbus® TCP, standard bus over Ethernet, USB device, internal storage and SD card.

Wireless



	9	Future Option
	A =	Future option
	10	Future Option
	A =	Future option
(1	11 (12)	Additional Options
,	AA =	Standard
	XX =	Custom/locked code application specific

11 (12)

**Additional** 

**Options** 

Watlow®, EZ-ZONE®, ASPYRE® and POWERGLIDE® are registered trademarks of Watlow Electric Manufacturing Company.

RMA PLUS™ is a trademark of Watlow.

Modbus® is a registered trademark of Schneider Automation Incorporated.

Windows® is a registered trademark of the Microsoft Corporation.

Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. DeviceNet<sup>™</sup> and EtherNet/IP<sup>™</sup> are trademarks of Open DeviceNet Vendors Association.

# Powered by Possibility



To be automatically connected to the nearest North American Technical Sales Office:

1-800-WATLOW2 • www.watlow.com inquiry@watlow.com

International Technical Sales Offices:

Austria +43 6244 20129 0 China +86 21 3532 8532

France +33 1 41 32 79 70 **Germany** +49 7253 9400 0

India Italy Japan Korea

+91 40 6661 2700 +39 02 458 8841 +81 3 3518 6630 +82 2 2169 2600

Mexico Spain Taiwan IJK

+52 442 256 2200 **Singapore** +65 6773 9488 +34 91 675 1292 +886 7 288 5168 +44 115 964 0777