

RMA PLUS Remote Access Module

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



Watlow's new RMA PLUS remote access module supports Watlow's powerful EZ-ZONE® RM temperature controller family by communicating with and providing access to all EZ-ZONE RM modules in a system.

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

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

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+ (high-speed Watbus)
- EZ-ZONE RM (A, C, E, H, L, S) (low-speed Watbus)
- EZ-ZONE PM, RUI, ST (low-speed Watbus)
- EZ-ZONE RM (F, G, UH, Z)
- POWERGLIDE™

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 (Watbus) for configuration and communication connection to all EZ-ZONE products

Standard Communication

- Watbus over Ethernet (gateway to high-speed Watbus)
- Watbus over USB (gateway to high-speed Watbus)
- Watbus via Serial ('C' connector)
- Modbus® TCP

Additional Communication Options

- EIA 232/485, Modbus® RTU
- DeviceNet™ (future option)
- EtherNet/IP™ (future option)

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): +/- 30ppm at 77°F (25°C)
- +30/-100ppm 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 Watbus bus and zone
- File storage on embedded micro SD memory
- Comma separated value (CSV) file type
- Access log files via USB device port

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 memory

Note: All module parameters are backed up in memory.

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.

| | | | | | | | |
|--|---|---|-------------------|----------------------------|--------------------------------|--------------------------------|---------------------------|
| ① ② ③ ④ Rail Mount Access Module RMAP | ⑤ Additional Communication Protocols | ⑥ Ultra High Density Thermocouple Input Card | ⑦ Data Logging | ⑧ Wireless Connectivity | ⑨ Future Option A | ⑩ Future Option A | ⑪ ⑫ Additional Options |
|--|---|---|-------------------|----------------------------|--------------------------------|--------------------------------|---------------------------|

| ⑤ Additional Communication Protocols | |
|--------------------------------------|----------------------------|
| A = | None |
| 2 = | Modbus® RTU 232/485 |
| 5 = | DeviceNet™ (future option) |

| ⑥ Ultra High Density T/C Input Card | |
|-------------------------------------|--|
| A = | None |
| 1 = | 18 T/C scanner inputs (future option) |
| 2 = | 18 T/C limit inputs with one global relay output (future option) |

| ⑦ Data Logging | |
|----------------|-----------------------------|
| A = | None |
| D = | Data logging to 16G SD card |

| ⑧ Wireless Connectivity | |
|-------------------------|----------------------------|
| A = | None |
| B = | Bluetooth® (future option) |
| W = | Wi-Fi (future option) |

| ⑨ Future Option | |
|-----------------|---------------|
| A = | Future option |

| ⑩ Future Option | |
|-----------------|---------------|
| A = | Future option |

| ⑪ ⑫ Additional Options | |
|------------------------|---|
| AA = | Standard |
| XX = | Custom/locked code application specific |

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

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.

POWERGLIDE™ is a trademark of Watlow Electric Manufacturing Company.

DeviceNet™ and EtherNet/IP™ 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 | India | +91 40 6661 2700 |
| China | +86 21 3532 8532 | Italy | +39 02 458 8841 |
| France | +33 1 41 32 79 70 | Japan | +81 3 3518 6630 |
| Germany | +49 7253 9400 0 | Korea | +82 2 2169 2600 |

| | |
|-----------|------------------|
| Mexico | +52 442 256 2200 |
| Singapore | +65 6773 9488 |
| Spain | +34 91 675 1292 |
| Taiwan | +886 7 288 5168 |
| UK | +44 115 964 0777 |