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.

<table>
<thead>
<tr>
<th>Rail Mount Access Module</th>
<th>Additional Communication Protocols</th>
<th>Ultra High Density Thermocouple Input Card</th>
<th>Data Logging</th>
<th>Wireless Connectivity</th>
<th>Future Option</th>
<th>Future Option</th>
<th>Additional Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>② ③ ④</td>
<td>⑤</td>
<td>⑦</td>
<td>⑧</td>
<td>⑨</td>
<td>⑩</td>
<td>⑪ ⑫</td>
</tr>
<tr>
<td>RMAP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A = Future option</td>
<td>A = Future option</td>
<td>A = Future option</td>
</tr>
<tr>
<td>AA = Standard</td>
<td>XX = Custom/locked code application specific</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.