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

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

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ISO 9001
Registered Company
Winona, Minnesota USA

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
- 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
- DeviceNet™
- EtherNet/IP™ 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 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	⑤ Additional Communication Protocols	⑥ Ultra High Density Thermocouple Input Card	⑦ Data Logging	⑧ Wireless Connectivity	⑨ Future Option	⑩ Future Option	⑪ ⑫ Additional Options
RMAP	–				– A	A	

⑤	Slot B Options
A =	None
2 =	Modbus® RTU 232/485
5 =	DeviceNet™ (future option)

⑥	Optional Communication Protocols
A =	None
3 =	EtherNet/IP server (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

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DeviceNet™ and EtherNet/IP™ are trademarks of Open DeviceNet Vendors Association.

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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	**Mexico**	+52 442 256 2200
China	+86 21 3532 8532	**Italy**	+39 02 458 8841	**Singapore**	+65 6773 9488
France	+33 1 41 32 79 70	**Japan**	+81 3 3518 6630	**Spain**	+34 91 675 1292
Germany	+49 7253 9400 0	**Korea**	+82 2 2169 2600	**Taiwan**	+886 7 288 5168
				UK	+44 115 964 0777