

Watlow's New EZ-ZONE® RMT Controller Offers Closed Loop Control of Every Heater to Help Prevent Thermal System Issues in Gas Delivery Applications

Watlow's EZ-ZONE® RMT is the first controller with Adaptive Thermal Systems® (ATS™) technology that integrates both thermocouple heater junction sensing and power conversion to optimize Watlow's new STREAMLINE™ Gas Delivery System.

For customers that need the ability to reduce the number of conductors and control every heater in a multi-heater system, the EZ-ZONE RMT has 12 independent outputs capable of switching power to the heater, reading the temperature of every heater and reporting voltage, current, resistance and wattage of every heater with just two conductors. In addition, the EZ-ZONE RMT incorporates built-in certified agency approved safety limits. Unlike competitive devices that require twice as many wires, external measuring devices and external safety limit controllers, the EZ-ZONE RMT has integrated all this technology into one small DIN rail package.

While typical gas delivery thermal systems require a maze of wires associated with input, output and over-temperature protection, Watlow's EZ-ZONE RMT restructures the solution by offering closed loop control with integrated over-temperature safety protection for each heater with just two wires. The efficiency helps prevent system issues customers may otherwise experience.

The need to integrate fewer controllers makes installation quicker and easier by cutting the required heater connections by two thirds. It also reduces costs and provides a more spatially-efficient system.



Features and Benefits

Removes complications and nuisance components by migrating functions from the heater to the controller

- Creates a clean, aesthetic loop with just two wires
- Eliminates thermostats and sensor wires
- Offers temperature control with integrated safety limit for each zone

Provides built-in diagnostics of each zone

- Enables real-time data of line heating to master controller on tool

Incorporates an improved fault detection system

- Provides connectivity to all zones to locate and fix system issues as quickly as possible

Intelligent design

- Allows for better diagnostics, reliability and product life expectancy
- Offers real-time diagnostics about every heater in the application
- Provides auto output protection mode

Connects with EtherCAT®

- Aligns with industry standard communications protocol

Specifications

Voltage

- 208VAC ±10%

Ambient Ratings

- -18 to 65°C

Humidity

- 0 to 90% non-condensing

Altitude

- Maximum 2,000 meters

Installation Category II

- Pollution degree category 2
- No maintenance requirements or field serviceable parts apply to the EZ-ZONE RMT controller

Safety Relay

- 2 amps resistive, 24 - 240VAC or 30VDC, 125VA pilot duty 120/240VAC, 25VA at 24VAC

Agency Directives

- ISO 13849-1 Safety of Machinery - Safety-related parts of control systems - Part 1: General principles for design (Category 2 and performance level C)

Third Edition, dated December 15, 2015

UL® 61010-1 Standard for Safety

- Electrical Equipment for measurement, control and laboratory use; Part 1: General requirements Third Edition, Dated May 11, 2012

Ordering Information

Part Number

① ②	③	④	⑤ ⑥	⑦ ⑧	⑨	⑩	⑪ ⑫
EZ-ZONE Rail Mount	Primary Product	Future Option	Control/Limit	Heater Technology	Future Option	Future Option	Customization
RM	T	A			A	A	

③	Primary Product Function
T =	TC heater sensor with integrated limit

④	Future Option
A =	Standard product

⑤ ⑥	Control/Limit Loops
06 =	6 control loops (1 module card installed)
12 =	12 control loops (2 module cards installed)

⑦ ⑧	Heater Technology
CL =	Cloth heaters
SR =	Silicone rubber heaters

⑨	Future Option
A =	Standard product

⑩	Future Option
A =	Standard product

⑪ ⑫	Customization
AA =	Standard product
XX =	Any two letters or number for custom non-critical options

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