The EZ-ZONE® PM panel mount controller from Watlow® offers control options to reduce system complexity and the cost of thermal loop ownership. You can order the EZ-ZONE PM as a PID controller, an over/under limit controller or these functions can be combined into an integrated controller. You also have the option to integrate a high amperage power controller output with a high-performance PID controller and an over/under limit controller in one space-saving, panel mount package. A number of communication options are available to support your connectivity needs. Because the EZ-ZONE PM controller is highly scalable, you only pay for what you need. This controller is available in \( \frac{1}{32} \), \( \frac{1}{16} \), \( \frac{1}{8} \) and \( \frac{1}{4} \) DIN panel mount packages. If you are looking for a PID controller, an over/under limit controller or an integrated controller, the EZ-ZONE PM will make your life easier.

**Features and Benefits**

**Integrated PID and limit controller**
- Reduces wiring time and termination complexity compared with connecting discrete products
- Decreases required panel space
- Lowers installation costs
- Increases user and equipment safety for over/under temperature conditions

**High amperage power control output**
- Drives 15 ampere resistive loads directly
- Reduces component count
- Decreases cost of ownership

**Current monitoring**
- Detects heater current flow and provides alarm indication of a failed output device or heater load

**Serial communication capabilities**
- Provides a wide range of protocol choices including Modbus® RTU, EtherNet/IP™, Modbus® TCP, PROFIBUS DP and DeviceNet™
- Supports network connectivity to a PC or PLC

**Dual-channel controller**
- Provides two PID controllers in one space-saving package

**Enhanced control options**
- Easily handles complex process problems such as cascade, ratio, differential, square-root, motorized valve control without slidewire feedback, wet-bulb/dry-bulb, compressor control and peltier loads

**Advanced PID control algorithm**
- Offers TRU-TUNE®+ adaptive control to provide tighter
control for demanding applications
• Provides auto-tune for fast, efficient start-up

**Configuration communications with software**
• Includes Watlow standard bus communications and EZ-ZONE configurator software
• Saves time and improves reliability of controller setup

**Ten-point linearization curve**
• Improves sensor accuracy

**Built-in sensor compensation curves**
• Saves cost of buying compensated sensors
• Includes Vaisala RH and altitude (pressure) curves

**Remote set point operation**
• Supports convenient set point manipulation from a remote device such as a master control or PLC

**Profile capability**
• Offers pre-programmed process control
• Allows ramp/soak programming with 40 total steps, battery backup and real time clock

**Retransmit Output**
• Supports industry needs for recording

**Factory Mutual (FM) approved over/under limit with auxiliary outputs**
• Increases user and equipment safety for over/under temperature conditions

**Memory for saving and restoring parameter settings**
• Decreases service calls and time down

**Agency approvals: UL® listed, CSA, CE, RoHS, W.E.E.E., FM, SEMI F47-0200, Class 1, Div. 2 rating on selected models**
• Assures prompt product acceptance
• Reduces end product documentation costs

**Touch-safe package**
• Increases safety for installer/operator
• Complies with IP2X requirements

**Consistent termination labeling connection system**
• Simplifies switching between products
• Speeds up user’s system documentation

**EZ-KEY**
• Enables simple, one-touch operation of user-defined, repetitive activities

**Programmable menu system**
• Reduces setup time and increases operator efficiency

**Three-year warranty**
• Provides product support and reliability