

PRODUCT DATA SHEET

PM Plus Controller (LCD Display)

PM Legacy Controller (LED Display)



Benchtop Configuration plus handle and feet
9" x 8" x 2-3/4" additional PM3 upper and
lower limit Controller

ECONOMICAL TEMPERATURE CONTROLLER FOR PRECISION TEMPERATURE TEST

The Watlow® PM Plus PM6 panel mount controller is an industry-leading PID controller that allows optimal performance utilizing simple control and menu functionality without complex features. One of the leading controllers for providing cost-effective designs to market. These controllers are highly scalable, you pay only for what is needed. It is ideally suited for basic applications and usage levels. These temperature controllers are for use with temperature chambers and thermal platforms and are ideal for use when controlled environments are essential for the testing, screening, and calibration of mission-critical systems. For use with **TotalTemp Technology** equipment or retrofitted to replace outdated controllers. Configured to desired specifications, systems come complete with circuit protection, 6 foot power cord and pre-tested with any options included in system.

Features and options:



The **PM EZ-Zone** and the Legacy Series due to limitations of the LED displays employs mnemonics and abbreviations. The menu functionality for setup and programming is difficult for some users.



NEW Watlow® PM Plus PM6 controller has a simple control and menu functionality without complex features. The new LCD display reduces menu structure to a list of lists allowing the controller to be easily configured and offers easy to read characters, color coding makes the display visible from many angles.

Interface

- LCD (PM Plus)
- SMOOTH TOUCH keypad (PM Plus)
- Programmable function key

Universal Sensor Input

- RTD's 2 wire or 3 wire
- Thermocouples:
Type J: -346 to 2192°F (-210 to 1200°C)
Type K: -454 to 2500°F (-270 to 1371°C)
Type T: -454 to 750°F (-270 to 400°C)
Type E, N, C, D, F, R, S and B

Available Controller Configurations

- Standard Bench Top with handle
- 19 Inch Rack Mount
- Chassis Mounted
- [Independent Safety Shutdown](#)
- Custom Controller Umbilical Length
- Umbilical Secondary In-line Sensor (optional)
- High Current option for Faster Heating
- Optional Second Channel Temperature Monitor
- Extended Temperature Ranges
- Cryogenic or Mechanical Cooling
- Over and under Temperature Limit Controller (PM3 or PM6)
- Retrofit Controllers for Aging Systems
- For Chambers, Thermal Platforms and more

Alarm Types

- Open Sensor
- High/Low Process Limit
- High/Low Deviation Limit
- User Programmable Alarms

Programming

- USB to RS485 Converter available for PM PLUS Configurator, configure and save parameter sets
- Programmable function key (user-defined)
- Programmable menu system (Locks-out complex menus for daily operator)
- Limited ramp profiles
- Auto-tune with TRU-TUNE+ adaptive control algorithm

Communications (Only available as custom options)

- Bluetooth
- Modbus® RTU
- EtherNet/IP™
- Modbus® TCP
- PROFIBUS DP
- DeviceNet™
- SAE J1939 CAN Bus
- Standard Bus
- EZ-LINK™ mobile app for remote access

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