

LEADING EDGE HEAT CONTROL WITH USER FRIENDLY INTERFACE

The *TempMaster* MT controller maximizes injection molding performance and offers the lowest cost of ownership. All TempMaster controllers feature the **NEW** APS (Adaptive Process System) technology providing faster processing and response speed.

BENEFITS

Out-of-the-box user friendly

- ✓ Intuitive touch screen interface
- ✓ Modular design with 2-zone control cards
- ✓ Cable set included
- ✓ Quick start guide for easy start-up
- ✓ **NEW** Leak Detection feature

Improves the performance of any hot runner system

- ✓ Unique low voltage soft start method
- ✓ APS (Adaptive Process System) control algorithm
- ✓ Phase angle and burst firing modes (time proportional, zero-crossing)
- ✓ Wide range of user settings

Plug and play system architecture

- ✓ Patented "all-in-one" control card designed for reliability
- ✓ Cabinets are fully wired for maximum expansion
- ✓ No special setting required for start-up
- ✓ 15A per zone

Future now technology

- ✓ Color touch screen display
- ✓ Most advanced micro controller technology
- ✓ Switch mode power supply
- ✓ Infield calibration mode
- ✓ Continuous ground fault and current measurement

High quality, robust design

- ✓ Compact solid metal enclosure
- ✓ Heavy duty industrial connectors
- ✓ Mold and controller protection features
- ✓ On-board load and thermocouple fuses



▲ *TempMaster* MT - various cabinet options



▲ *TempMaster* MT 2-zone control module

TempMaster MT Controller Specifications

User Interface	Full color LCD touch screen
Display Size	2 inches (176 x 200 pixels)
Calibration Accuracy	1°F / 0.5°C
Control Accuracy	+/- 1°
Power Response Time	8.3 ms at 60 Hz
Control Algorithm	APS (Adaptive Process System)
Scale	°C / °F Software selectable
Thermocouple	J or K-Type, software selectable
Operating Range	0 - 472°C or 32 - 882°F
Output Voltage	Maximum 264 VAC
Supply Voltage	95-265Vac
Frequency	50 - 60 Hz automatic switching
Ambient Temperature Range	5 - 45°C (41 - 113°F)
Humidity Range	Up to 95% non-condensing
Ground Fault Detection	40mA per zone
Power Control	Phase angle and burst firing modes (time proportional, zero-crossing)
Overload Protection	Semi-conductor fuses on both legs
Control Modes	Closed loop (Auto), open loop (Manual)
Alarm Output	Closing contact relay max. 5A, 230V
T/C Connector	Various options available
Power Connector	Various options available
Soft-Start with Auto Tune	Using unique low voltage method for heater safety
Input Protection	Plug in nano fuses on both T/C legs
Controller includes 15ft (4.8m) cables	

Specifications may change without notice



Cabinet sizing	# of Cards by Bay	Dimensions (W x D x H cm)
MT-XS	2 (up to 4 zones)	21x35x21
MT-S	3 (up to 6 zones)	26x35x21
MT-M	6 (up to 12 zones)	40x35x21
MT-L	9 (up to 18 zones)	57x35x21