

SUPERIOR CONTROL TO MAXIMIZE MOLDING PERFORMANCE

The *TempMaster M2* controller offers the precision control needed to make perfect parts. 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 with feature-rich software
- ✓ Interactive 3D performance graphs with historical view function
- ✓ Easyview feature to improve the understanding of the hot runner layout
- ✓ On-screen help and quick start guide reduces startup time
- ✓ **NEW** Energy Monitor
- ✓ **NEW** WiM2 hot runner remote control using wireless technology

Improves the performance of any hot runner system

- ✓ Unique low voltage soft start to maximize heater life
- ✓ Phase angle and burst firing modes (time proportional, zero-crossing)
- ✓ Multiple startup sequence options available for process optimization
- ✓ Diagnostics to ensures hardware performance and configuration

Plug and play system architecture does not requires any external service

- ✓ Patented "all-in-one" control card designed for reliability
- ✓ 5A, 15A, 30A or 40A cards can be exchanged without an electrically trained service engineer
- ✓ Sequential Valve Gate Controller Card

Future now technology

- ✓ Adaptable cabinet bus design accommodates many option cards for functions such as water flow, temperature and pressure monitoring
- ✓ Ethernet and communication servers for process monitoring
- ✓ Plastic leak detection
- ✓ Optional PRIAMUS Fill & Cool System for improved part conformance
- ✓ **Purge Wizard™** for improved color change

High quality, robust design for sustainable performance

- ✓ Quality construction cabinet card rack and connectors
- ✓ Mold and controller protection design features reduce downtime
- ✓ Minimum cabinet wiring reduces risk of faults



▲ TempMaster M2 controller

TempMaster M2 Controller Specifications

User Interface	Full color LCD touch screen on all HMI models
Display Size	7", 10.4" or 15.1" inches
Calibration Accuracy	1°F / 0.5°C
Control Accuracy	+/- 1° F / 0.5°C
Power Response Time	8.3 ms at 60 Hz
Control Algorithm	APS (Adaptive Process System)
Degree (F or C)	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	200/240v 3P Delta or 380/440v 3P Star - 480v 3P with transformer option
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 heater legs
Control Modes	Closed loop (Auto), open loop (Manual), standby mode, boost, slave mode
Alarm Output	Closing contact relay, max. 5A, 230V
TC Connector	Various options available
Power Connector	Various options available
LED Indicators	Fuse, thermocouple failure, ground fault, power % indicator
Soft-Start with Auto-Tune	Using unique low voltage method for heater safety
Input Protection	Plug in nano fuses on both TC legs
Ports	USB and Ethernet
Communications	SPI, VNC server and client over Ethernet
Controller includes 15ft (4.8m) power cables	Connector cables sold separately



Cabinet sizing	Maximum # of Zones*	Dimensions (W x D x H cm)
M2-XS	36 (6 slots)	31x45x45
M2-S	72 (12 slots)	36x45x80
M2-M	144 (24 slots)	45x54x86
M2-L	216 (36 slots)	45x54x133

* based on 6-zone 5A cards