

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 |



▲ M2-XS ▲ M2-S ▲ M2-M ▲ M2-L

| 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