



KEREENIJJJJ

INTEGRATE THE M2 CONTROLLER INTO YOUR INJECTION MOLDING MACHINE

Now our TempMaster M2 controller can be fully integrated into any injection molding machine allowing for optimal precision while eliminating the entire controller footprint. A single HMI can now be used for all control requirements. Total control - fully integrated. All TempMaster controllers feature the NEW Adaptive Process System (APS) technology providing faster processing and response time including technologies to prevent damage caused by power/thermocouple wiring issues.

KEY FEATURES

- Available from 4-144 zones.
- Flexible options: Use serial -SPI, Ethernet VNC, RDP, Modbus, Powerlink to communicate with IMM – HMIwith IMM – HMI.
- Uses standard M2 control cards: 5A, 15A, 30A, 40A.
- Built in UPS supply.
- Built-in IO functions linked to machine interlocking.
- 0.1 degree control accuracy.
- Unique soft-start & continuous Ground Fault Detection.
- Fully automatic tool diagnostic.
- Plastic leak detection.
- Color change optimization with Purge Wizard.
- Hot runner performance tracking system.
- Tool ID system.
- Water flow monitoring system.
- Built-in sequential valve gating functions.
- Easy to use 3D graphics with HMI touch screen.
- Mold pictures and tool storage info.
- Data can be exported for analysis.





SPECIFICATIONS



TEMPMASTER M2 CONTROLLER SPECIFICATIONS	
Calibration Accuracy	1°F / 0.5°C
Control Accuracy	+/-1°
Power Response Time	8.3 ms at 60 Hz
Control Algorithm Adaptive	PID ² with auto-tuning
Degree (F or C)	Software selectable
Thermocouple	(J or K) Field selectable
Operating Range	0 - 472°C or 32 - 882°F
Output Voltage	240 VAC
Supply Voltage	200/240V 3P Delta or 380/415V 3P Star with Neutral (480V, 3P with optional transformer)
Frequency	50 - 60 Hz automatic switching
Ambient	Temperature Range 15 - 45°C
Humidity Range	Range 15 - 45°C or 41 - 113°F
Ground Fault Detection	20 mA per zone
Power Control	Burst fired or phase firing
Overload Protection	Semi-conductor fuses on both heater legs
Control Modes	Closed loop (Auto), open loop (Manual), standby mode or boost
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

