

PRECISE TEMPERATURE CONTROL INTEGRATED INTO YOUR INJECTION MOLDING MACHINE

The powerful TempMaster M3 control platform can now be seamlessly integrated into any injection machine to eliminate the controller footprint. Featuring precise APS control technology and a wide range of advanced features, optimize the performance of any hot runner system. Unlock your operations full potential with TempMaster iM3.

KEY FEATURES

SEAMLESS INTEGRATION

- OEM appearance.
- Eliminates the excess footprint of separate control equipment.
- Utilizes the existing HMI of the injection machine.

ADVANCED FEATURES

- Provides enhanced hot runner functionality.
- Significantly improve molding process control and performance.
- Incorporates a variety of safety and protection features such as plastic leakage detection to protect the tool.

EASILY MAINTAINED

- Control cards are readily accessible.
- Can be swapped out any time within seconds.

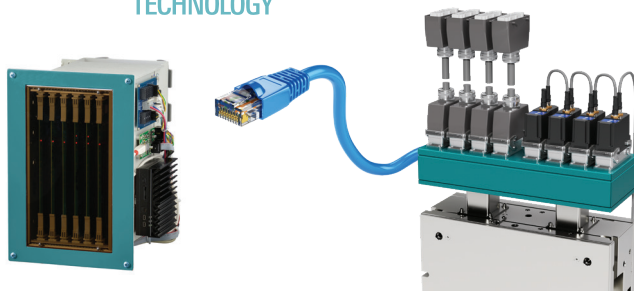
COMMUNICATION READY

- Compatible with several industry standard protocols for superior flexibility and control.
- Built-in IO functions linked to machine interlocking.



Features

TC-CONNECT TECHNOLOGY



TC-CONNECT Technology replaces conventional T/C mold cables with a single lightweight data cable. Eliminating conventional T/C cables, which make up 50% of all mold cables, saves cost, weight, and clutter from the molding cell.

Industry 4.0 Ready



SPECIFICATIONS



Control Card Formats	4-Zone (15A)
Control Algorithm	APS (Adaptive Process System)
Power Control	Phase Angle and Burst Firing Modes (Time Proportional, Zero-Crossing)
Calibration Accuracy	0.1°C (0.2°F)
Resolution	0.05°C (0.1°F)
Power Response Time	8.3 ms at 60 Hz
Temperature Scale	°C or °F (Software Selectable)
Thermocouple	J or K-Type (Software Selectable)
Operating Range	0 - 472°C (32 - 882°F)
Output Voltage	240V @415V Supply and 230V @400V Supply
Supply Voltage	200/240v 3P Delta or 380 to 415V 3P Star (other requires transformer)
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
Alarm Output	Closing Contact Relay 5A, 230V (Max)
T/C Connector	Various options available
Power Connector	Various options available
Input Protection	63mA Nano Fuses on Both T/C Legs
Overload Protection	Semi-conductor fuses on both heater legs
Heater Fuses	15A @ 220V Fast Blow Type
Control Modes	Closed Loop (Auto), Open Loop (Manual), Standby, Boost, Slave
Ports	USB and Ethernet
LED Indicators	Scan, Fuse, Thermocouple Failure, Ground Fault, Power %
Communications	OPC-UA (Euromap82.2), VNC, SPI, Powerlink, Modbus, EtherCAT.
Languages	English, French, German, Portuguese, Spanish, Polish, Russian, Chinese, Japanese, Czech, Italian, Turkish

Frame Size	# of Cards (Max)	# of Zones	Dimensions** W x H x D mm (in.)
S	6	24	341x359x388 (14x14x15)
M	9	36	402x369x389 (16x15x15)
L	12	48	458x492x384 (18x19x15)

*Based on 4z-15A cards.

**Dimensions are a guideline only and may vary depending on integration requirements.

