

DME Smart Series® TSP Temperature Control System

Maximized Performance
with Minimal Footprint



DME
Every step of the way

DME Smart Series® TSP Temperature Control System

Expanding the popular line of Smart Series controllers, the Smart Series TSP Temperature Control System optimizes hot runner molding performance with the advanced features of a touch screen panel but within a minimal footprint.

Benefits

Smart Series TSP user-friendly performance

- Intuitive, leading edge touch screen display with adjustable viewing angle
- Automatically deployed diagnostics to ensure optimal hardware configuration and performance
- Advanced micro controller technology
- Continuous ground fault and current measurement

Plug-and-play system architecture

- Patented “all-in-one” control card designed for reliability
- Modular 6-zone cards; 15 amps per zone
- Field calibration mode
- Universal power supply



Optimizes performance for all hot runner systems

- Unique low voltage soft-start feature maximizes heater life
- Uniform startup feature reduces scrap and energy usage
- Proprietary adaptive auto-tuning control algorithm
- Phase angle or burst firing modes (time proportional, zero-crossing)

Robust, high-quality design

- Compact solid metal enclosure with heavy-duty industrial connectors
- Mold and controller protection features
- On-board heater and thermocouple fuses
- Portable stand available

Optional 7" display with advanced feature set now available!

IMPORTANT NOTICE: Smart Series TSP Controllers are not designed to control all zones as manifold zones. Doing so will cause the main circuit breaker to trip.

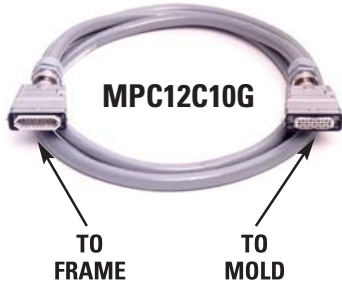
DME Smart Series® TSP Temperature Control System

Specifications

Smart Series TSP Temperature Control System Specifications	
User Interface	Full-color LCD touch screen on all HMI models
Display Size	5.7" QVGA
Calibration Accuracy	0.5°C / 1°F
Control Accuracy	+/- 0.5°C / 1°F
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-Type, software selectable
Operating Range	0 - 472°C or 32 - 882°F
Output Voltage	Maximum 264 VAC
Supply Voltage	200/240 Delta or 380/440V 3Ø Star
Supply Breaker	40A 3 Phase breaker for 6 and 12 zone control units 63A 3 Phase Breaker for 18 to 48 zone control units
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 or 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, boost mode and slave mode
Alarm Output	Closing contact relay, max. 5A, 230V
T/C and Power Connector	HAN 24e or 3
LED Indicators	Fault, Scan
Soft-Start with Auto-Tune	Unique low voltage method for heater safety
Input Protection	Plug-in nano fuses on both TC legs
Port (optional)	USB

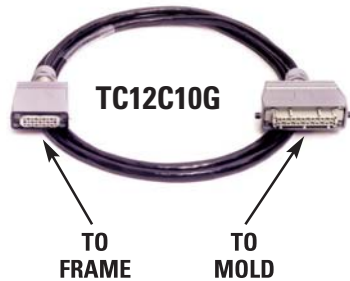
Item Number	Slots	# of Zones	Availability
ITS-06-15	1	6	Special order; contact DME
ITS-12-15	2	12	In stock
ITS-18-15	3	18	Special order; contact DME
ITS-24-15	4	24	In stock
ITS-30-15	5	30	Special order; contact DME
ITS-36-15	6	36	Special order; contact DME
ITS-42-15	7	42	Special order; contact DME
ITS-48-15	8	48	In stock

DME Smart Series® TSP Temperature Control Accessories



Mold Power Cables (15 AMP Max)

10 FOOT LONG	20 FOOT LONG	30 FOOT LONG	NUMBER OF ZONES (MAX.)	FOR CONNECTIONS	
ITEM NUMBER	ITEM NUMBER	ITEM NUMBER		FROM 15 AMP FRAME (S)	TO POWER INPUT CONNECTOR
MPC12C10G	MPC12C20G	MPC12C30G	12	12 ZONE	PIC12G



Thermocouple Cables (for 15 or 30 AMP Mainframes)

10 FOOT LONG	20 FOOT LONG	30 FOOT LONG	NUMBER OF ZONES (MAX.)	FOR CONNECTIONS	
ITEM NUMBER	ITEM NUMBER	ITEM NUMBER		FROM 15 AMP FRAME (S)	TO THERMOCOUPLE CONNECTOR
TC12C10G	TC12C20G	TC12C30G	12	12 ZONE	MTC12G



ITEM

ITSTROLLEY

Module Replacement Fuses

(sold in packs of 5)



ITEM NUMBER

RPM0123

AMPS

15



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