

Smart Series® TSP PLUS Temperature Controllers



Everything you loved about the original TSP controller with new enhanced features for optimal control.

- **Automatic Leak detection**
- Enhanced 7" Color Touch screen
- Storage : up to 100 Tools
- Optional Thermocouple to monitor steel temperature and alarm if cooling is off
- Accuracy 0.01 °F
- Ability to control Small Mass / High Watt density nozzles
- Field selectable PID (parameters) to optimize control process
- APS technology (Adaptive Process System)
- SPI communication Protocol via RS232/RS485 included
- Optional Full IO function card with 4 input + 4 output for communication (ordered separately - IOCARD-KIT)

ITEM NUMBER	SLOTS	# OF ZONES
ITSP-12-15	2	12
ITSP-24-15	4	24
ITSP-36-15	6	36
ITSP-48-15	8	48

Custom zone configurations available upon request

ITEM NUMBER	DESCRIPTION
ITSCGR-A	PCB replacement card, 6 zones @ 15 AMP

See reverse side for accessories



SMART SERIES USER-FRIENDLY PERFORMANCE

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

PLUG-AND-PLAY SYSTEM ARCHITECTURE

- "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

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



Mold Power Cables (15 AMP Max)

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



Thermocouple Cables (for 15 or 30 AMP Mainframes)

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

ZONES	CONTROLLER	CABLES	TERMINAL MOUNTING BOX
12 ZONES OF CONTROL (15 AMP)	(1) ITSP-12-15	(1 each)	(1 each)
24 ZONES OF CONTROL (15 AMP)	(1) ITSP-24-15	(2 each)	(2 each)
36 ZONES OF CONTROL (15 AMP)	(1) ITSP-36-15	(3 each)	(3 each)
48 ZONES OF CONTROL (15 AMP)	(1) ITSP-48-15	(4 each)	(4 each)

ITEM ITSPTROLLEY



Module Replacement Fuses (sold in packs of 5)

ITEM NUMBER	DESCRIPTION	AMPS
RPM0123	POWER FUSE	15
RPM0124	TC FUSE	.062



ITEM ALARM BEACON



TSP Plus controllers do not come standard with wiring for the alarm beacon. Controller and beacon must be purchased together as a special. Contact customer service at 800-626-6653 or dme@dme.net.