SMART SERIES® ITSP PLUS

DME®

ADVANCED, COMPACT TEMPERATURE CONTROL
FOR MEDIUM SIZED MOLDS

PRECISE HOT RUNNER TEMPERATURE CONTROL

The ITSP platform combines popular features with A.P.S. Control Technology for precision control of up to 48 zones. Powerful performance in a compact unit. Optimize the performance of any hot runner system and unlock your operations full potential.

POWERFUL, 15A/ZONE CONTROL CARD

- Power to control a wide rage of hot runner zones from nozzle tips to larger manifolds.

PATENTED "ALL-IN-ONE" CARD DESIGN

- On-board heater and thermocouple fuses. Eliminates excess wiring and improves accessibility making servicing quick and easy, minimizing downtime.

IMM COMMUNICATION

- Centralized alarm interlock for improved part quality through process control.

DURABLE DESIGN

- Compact solid metal enclosure and heavy duty connectors for reliable operation.

KEY FEATURES

AVAILABLE 7" INTUITIVE TOUCH SCREEN COLOR DISPLAY

- Easily view, monitor and control multiple zones at once.

WIDE RANGE OF ADVANCED FEATURES & SETTINGS

- Greater control and precision of molding process.

COMPACT CABINET DIMENSIONS

- Preserves valuable space. Up to 32% smaller than competitive systems. Can be placed almost anywhere.

Options:
Alarm Beacon
Portable stand

Optional Features	ITSP
Auto/Manual Control	S
Zone "on", '"off", & "locked"	S
Menu "Auto Save"	S
Tool Store	100
USB Port	S
Zone Naming	S
Touch Screen Calibration	S
Global Setting	S
Sequence Start	S
Sequence Shutdown	S
Sequenced Power Up (manual)	S
Tool/Data Export/Archive	S
Multi-Level Password	2-Level
Time & Date Change	S
Networking Printing (Ethernet IP)	S
On-line Help	S
Purge Wizard	S

Monitoring/Reporting	ITSP
Kilowatt Monitor	S
Insert Data Reporting	S
Data Report Archive	S
Print to USB Drive	S
Historical Graph	2-D
Alarm History	S

Alarms	ITSP
Audible Alarm	O
Alarm Beacon	O
Zone Alarm Configure	S
(+) High Temperature	S
(-) Low Temperature	S
T/C Open (remembered % output)	S
T/C Reversed	S
Open Fuse	S
Open Heater	S
Shorted Heater/Wet	S
Ground Fault Detection	S
Plastic Leak Detection	S

Protection Features	ITSP
On-Board Load Fuses	S
On-Board T/C Fuses	S
Soft Start	S
Continuous Ground Fault Detection	S
Current Measurement	S
Overload Protection	S
Short Circuit Protection	S
Automatic Tool Diagnostics	S
Plastic Leak Protection	Manual
IO Card (interlock with IMM)	O

Control Features	ITSP
APS (Adaptive Process System)	S
Phase Angle, Burst Firing	S
Infield Calibration Mode	S
Thermocouple Slave (manual)	S
Auto Standby/Alarm Output	S
T/C Filtering	S
Delta/Wye Convertible Option	S
Circuit Breaker Sized to Load	S
Interface Autopilot Control	S
Uniform Start-Up	S
Sequential Melt-Start	S
Low Mass High Watt PID[2] Control	S
Standby Timer	S
Even Heat (controlled heating)	S
Even Cool (controlled cooling)	S
Thermocouple Slave (auto)	S

Communications	ITSP
SPI	S

"S" = Standard, "O" = Optional

SPECIFICATIONS

User Interface	Full color LCD Touch Screen
Display Sizes	M1P - 7" (178mm)
Control Algorithm	APS (Adaptive Process System)
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
Thermocouple	J or K-type (software selectable)
Operating Range	0-472°C (32-882°F)
Output Voltage (Max)	264 VAC
Supply Voltage	200/240V Delta or 380 3Ø Star (Europe & Asia)
Frequency	50 - 60 Hz Automatic Switching
Ambient Temp 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	HD25
Power Connector	HD25
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 (remote USB optional)
LED Indicators	Scan, Fault (code displayed on zone)
Communications	SPI
Languages	English, French, German, Spanish, Chinese, Japanese, Czech. Italian, Hungarian

Cabinet Size	# of Cards	# of Zones	Dimension WxDxH cm (in)
XS	2	12	35X51X22 (14X20X9)
S	4	24	35X51X28 (14X20X11)
M	8	48	35X51X50 (14X20X20)

Based on 15A/zone