



YOUR PARTNER
FOR PRODUCTIVITY
AND SUSTAINABILITY



DME

ADVANCED, COMPACT TEMPERATURE CONTROL FOR MEDIUM SIZED MOLDS

The M1 platform combines popular features with advanced APS 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 with SmartSeries.

KEY FEATURES

LARGE, INTUITIVE 7" TOUCH SCREEN COLOR HMI

- Easily monitor and control multiple zones at once
- Simple to set-up and operate
- Data displayed in real time

ADVANCED FEATURES & SETTINGS

- Excellent control and precision
- Achieve greater process stability
- Mold parts with higher quality and reduce scrap

COMPACT CABINET DIMENSIONS

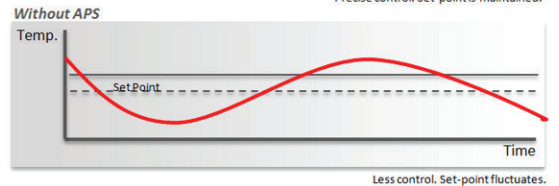
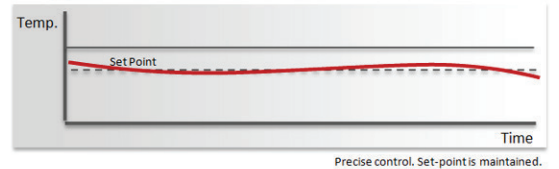
- Preserves valuable space, can be placed anywhere
- Up to 32% smaller dimensions than competition

HIGH CAPACITY MODULAR CONTROL CARD

- Reduces number of cards required by up to 60%
- On-board heater and thermocouple fuses
- Eliminates excess wiring and improves accessibility
- Simple to access and maintain

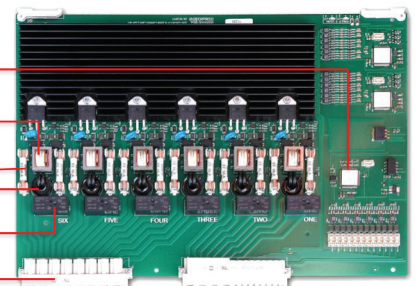
IMM COMMUNICATION

- Centralized alarm interlock
- Enhanced process control
- Prevents damage to equipment



REF	Slots	# of Zones	Cabinet size	Dimensions WxDxH in cm	Main
M1P1212NC	2	12	XS	35 x 51 x 22	40A 63A
M1P2424NC	4	24	S	35 x 51 x 28	
M1P3648NC	6	36	M	35 x 51 x 50	
M1P4848NC	8	48			

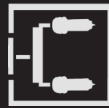
- New faster CPU
- Current measurement
- Dual line fusing
- Ground fault detection
- Dual line switching
- Reliable bus connector



6-Zone, 15A/Zone Control Card



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DME SMART SERIES® M1+

CAPABILITIES

Control Features	Operational Features	Protection Features	Alarms
APS (Adaptive Process System)	Auto/Manual Control	On-Board Load Fuses	Audible Alarm (Optional)
Phase Angle, Burst Firing	Zone "on", "off" and "locked off"	On-Board T/C Fuses	Alarm Beacon (Optional)
Low Mass High Watt Nozzle	Menu "Auto Save"	Soft Start	Zone Alarm Configure
Control	Boost (Manual/Auto)	Continuous Ground Fault	(+) High Temperature
Infield Calibration Mode	Tool Store (100 Limit)	Detection	(-) Low Temperature
Thermocouple Slave (Auto/Manual)	USB Port	Current Measurement	T/C Open (Remembered % Output)
Auto Standby/Alarm Output	Zone Naming	Overload Protection	T/C Reversed
T/C Auto/Man Kick-Off	Programmable Display Groups	Short Circuit Protection	Open Fuse
Wet Heater Bakeout	Purge Wizard (Color Change)	Automatic Tool Diagnostics	Open Heater
T/C Filtering	Sequence Start	Plastic Leak Detection (Manual)	Shorted Heater/Wet
Delta/Wye Convertable Option	Sequence Shutdown	LED Fault Indicators (2)	Ground Fault Detection
Circuit Breaker Sized to Load	Sequenced Power Up (Manual)	I/O Card (Optional)	Plastic Leak Detection
Interface Autopilot Control	Tool Data Export/Archive	Monitoring/Reporting	Programmable Action
Set Point Limit	Multi-Level Password (2)	Instant Data Reporting	
Set Power Limit	Time and Date Change	Data Report Archive	
Standby Timer	Network Printing (Ethernet IP)	Print Screen in jpg, png, pdf	
Sequential Melt-Start	Touch Screen Calibration	Format	
Even Heat (Controlled Heating)	On-Line Help	Save to USB Drive	
Even Cool (Controlled Cooling)		2-D Historical Graph	

SPECIFICATIONS

User Interface	Full Color LCD Touch Screen	Ground Fault Detection	40mA per Zone
Display Sizes	7" (178 mm)	Alarm Output	Closing Contact Relay 5A, 230V (Max)
Control Algorithm	APS (Adaptive Process System)	T/C Connector	HAN 24e
Power Control	Phase Angle and Burst Firing Modes (Time Proportional, Zero-Crossing)	Power Connector	HAN 24e
Display Resolution	0.1 (°C or °F)	Input Protection	63mA Nano Fuses on Both T/C Legs
Power Response Time	8.3 ms at 60 Hz	Overload Protection	Semi-conductor fuses on both heater legs
Temperature Scale	°C or °F (Software Selectable)	Heater Fuses	15A @ 220V Fast Blow Type
Thermocouple	J or K-Type (Software Selectable)	Control Modes	Closed Loop (Auto), Open Loop (Manual), Standby, Boost, Slave
Operating Range	0 - 472°C (32 - 882°F)	Ports	USB and Ethernet
Output Voltage (Max)	264 VAC	LED Indicators	Scan, Fuse, Thermocouple, Failure, Ground Fault, Power%
Supply Voltage	200/240V 3P Delta or 380/415V 3P Star with Neutral (480V, 3P with optional transformer)	Communications	SPI, Modbus
Frequency	50 - 60 Hz Automatic Switching	Languages	English, French, German, Spanish, Chinese, Japanese, Czech, Italian, Hungarian
Ambient Temperature Range	5 - 45°C (41 - 113°F)		
Humidity Range	Up to 95% non-condensing		

INCLUDES

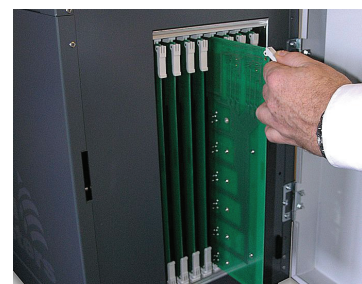
- Supply Cord
- Quick start guide

UPON REQUEST

- 4.8m (15') Cable Set

OPTIONS

- Alarm beacon
- Portable stand
- I/O Card (Included as standard in EU)



Easy access to control cards