# SMART SERIES® M*e*

## HOT RUNNER TEMPERATURE CONTROL MADE SIMPLE AND ECONOMICAL

The Me controller platform combines essential features with advanced APS Technology for precision hot runner temperature control. Powerful performance from a compact unit that helps improve part quality and minimize scrap. Optimize the performance of any hot runner system and unlock your operations full potential .

### KEY FEATURES

**INTUITIVE TOUCH SCREEN COLOR DISPLAY**
- Simple, user friendly interface.
- Allows for immediate familiarization.
- Monitor up to 12 zones at once.

**INTEGRATED 15-AMP CONTROL CARDS**
- Power to control a wide range of hot runner zones from nozzle tips to larger manifolds.
- On-board heater fuses.
- Quick and easy service access from the cabinet top and bottom.
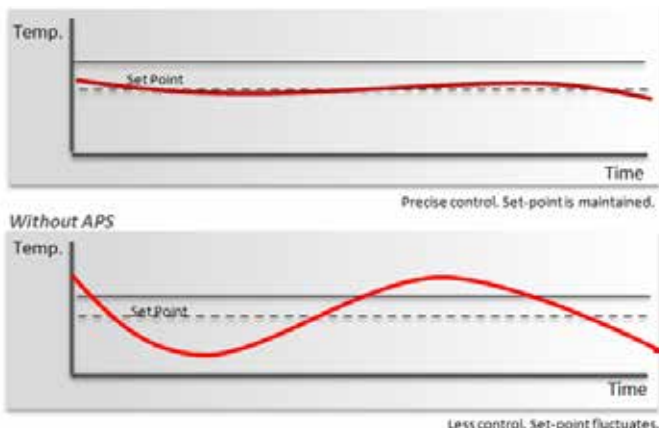
**COMPACT, STACKABLE CABINET DESIGN**
- Preserves valuable space.
- Can be placed almost anywhere.
- Available in 6 or 12 zone configurations.
- Lightweight.

**2 YEAR COMPREHENSIVE WARRANTY**
- Worry free global support coverage.
- Protects against manufacturers defects (fuses excluded).

| ITEM NUMBER | DESCRIPTION |
|---|---|
| Me6-15SS | 6 Zones of Control |
| Me12-15SS | 12 Zones of Control |

## SIMPLE TOUCH SCREEN CONTROLS

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## CAPABILITIES

### Control Features

APS (Adaptive Process System)

Phase Angle, Burst Firing

Infield Calibration Mode

Thermocouple Slave (Manual)

Auto Standby/Alarm Output

Wet Heater Bakeout

T/C Filtering

Delta/Wye Convertible Option

Interface Autopilot Control

Set Point Limit

Set Power Limit

Auto Load % Output

Uniform Start-Up

### Operational Features

Auto/Manual Control

Zone "on", "off" and "locked off"

Menu "Auto Save"

Tool Store (4)

USB Port

### Monitoring/Reporting

2-D Historical Graph

### Protection Features

On-Board Load Fuses

Soft Start

Continuous Ground Fault Detection

Current Measurement

Overload Protection

Automatic Tool Diagnostics

Plastic Leak Detection (Manual)

LED Fault Indicator (Scan)

### Alarms

Audible Alarm

Zone Alarm Configure

(+) High Temperature

(-) Low Temperature

T/C Open (remembered % output)

T/C Reversed

Open Fuse

Open Heater

Shorted Heater/Wet

Ground Fault Detection

Plastic Leak Detection

## SPECIFICATIONS

| | |
|---|---|
| **User Interface** | Full Color LCD Touch Screen |
| **Display Size** | 5" |
| **Cabinet Dimensions** | 36cm x 39cm x 20cm (14" x 15" x 8") |
| **# of Zones (Max)** | 6 or 12 |
| **Control Algorithm** | APS (Adaptive Process System) |
| **Power Control** | Phase Angle & Burst Firing Modes (Time Proportional, Zero-Crossing) |
| **Temp. Resolution** | 1 (0°C or 0°F) |
| **Power Response Time** | 8.3 ms at 60 Hz |
| **Temperature Scale** | 0°C or 0°F (Software Selectable) |
| **Thermocouple** | J or K-Type (Software Selectable) |
| **Operating Range** | 0 - 472°C (32 - 882°F) |
| **Output Voltage (Max)** | 264 VAC |
| **Supply Voltage** | 200/240V 3P Delta or 380/415V 3P Star with Neutral (480V, 3P with optional transformer) |

| | |
|---|---|
| **Frequency** | 50 - 60 Hz Automatic Switching |
| **Ambient Temperature Range** | 5 - 450°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 Male - DME Standard |
| **Power Connector** | HD25 Female - DME Standard |
| **Main Circuit Breaker** | 32Amp 3 pole |
| **Overload Protection** | Semi-conductor fuses on both heater legs |
| **Heater Fuses** | 15A @ 220V Super Fast Blow Type (FF) |
| **Control Modes** | Closed Loop (Auto), Open Loop (Manual), Standby, Boost, Slave |
| **Ports** | USB |
| **LED Indicators** | Scan |
| **Languages** | English, French, German, Spanish, Polish, Russian, Chinese, Japanese, Czech, Italian, Hungarian, Turkish, Portuguese, Korean |



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