

# DME Smart Series® TSM1512 Controller

## TSM1512



The new Smart Series TSM module has a color touch screen digital display providing readouts for Actual Temperature, Current Mode, Percentage Power and AMPs. Closed-loop, fuzzy logic PID control, and auto-tuning of PID parameters provide precise control even under the most adverse processing conditions.

In the event of a thermocouple failure, the TSM can automatically invoke bumpless transfer to a percent power mode based on the last valid percentage learned before the thermocouple failure. If desired, manual bumpless transfer may be selected, in which case a thermocouple fault will turn off power to the heater until the manual percent power mode is activated by the operator.

The TSM boost level option limits boosting of the temperature by 75°C or 135°F to limit the degradation of material.

The TSM module also includes a Smart Start® mode to safely bake out damaging internal heater moisture at system start-up and to prolong heater life. Fast or slow load modes may also be selected to protect smaller heaters or compensate for “slow” loads such as externally heated manifolds. An accurate, durable and full-featured module, the TSM is fully compatible with all Smart Series or G-Series® 15 AMP mainframes.

### TSM1512 SmartSeries® Controller with Default Settings (Factory Settings)

Zone temperature	260°C or 500°F
Standby level	100°C or 180°F
Boost level	75°C or 135°F
Over temperature range	10°C or 18°F
Under temperature range	
Ramp	On
Auto-Manual	On
Extended alarms for Manual, Standby and Boost	Off

## Front Panel Controls and Indicators

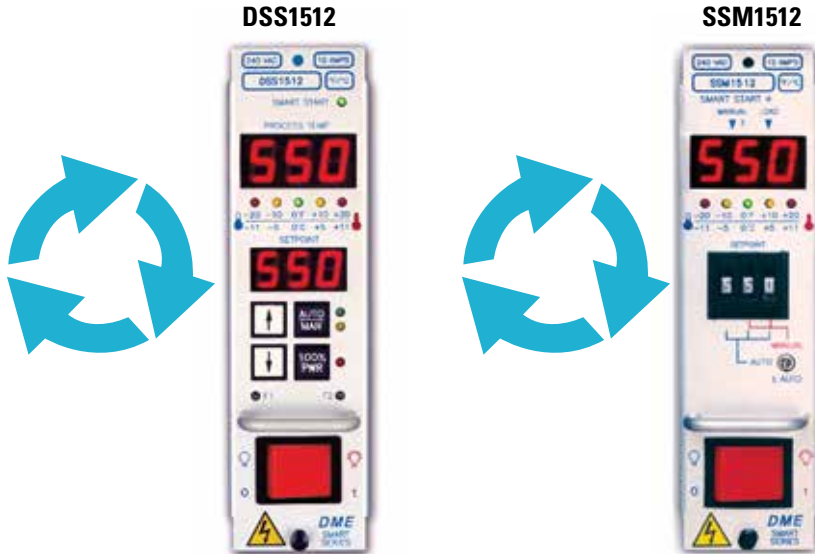


- ← ① Actual temperature (and scale)
- ← ② Current mode shows set-point
- ← ③ Percentage power applied
- ← ④ AMPs

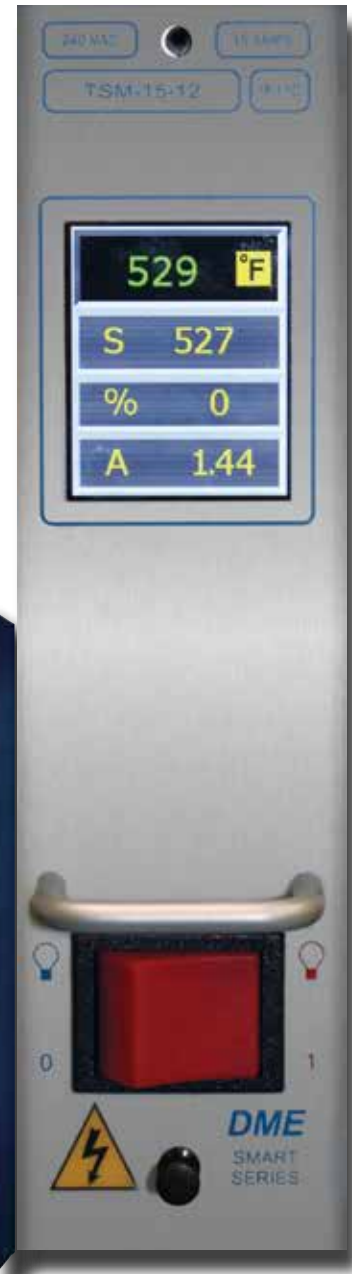
# Refresh Your Fleet



## Swap Out Your DSS, SSM or Any Compatible Temperature Control Modules with Smart Series TSM1512 Controllers



### TSM1512



The Smart Series TSM module has a color touch screen digital display providing read-outs for Actual Temperature, Current Mode, Percentage Power and AMPs. Closed-loop, fuzzy logic PID control, and auto-tuning of PID parameters provide precise control even under the most adverse processing conditions.



**World Headquarters  
DME Company**  
29111 Stephenson Highway  
Madison Heights, MI 48071  
800-626-6653 toll-free tel  
248-398-6000 tel  
888-808-4363 toll-free fax  
dme@dme.net e-mail

**DME Company**  
6210 Northwest Drive  
Mississauga, Ontario  
Canada L4V 1J6  
800-387-6600 toll-free tel  
905-677-6370 tel  
800-461-9965 toll-free fax  
dme\_canada@dme.net e-mail

**DME de Mexico**  
Acceso III No. 42, Bodega 11  
(Conjunto Industrial Mani)  
Zona Industrial Benito Juárez  
Querétaro, Querétaro  
CP 76120  
52 442 713 5666 tel  
ventas@dme.net e-mail