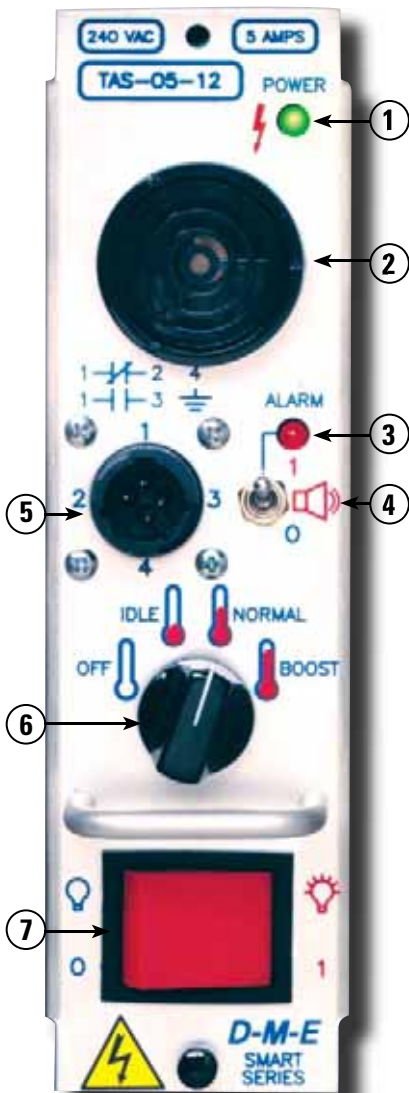# Temperature Alarm/System Control Modules

TAS-05-12/11 Temperature Alarm Function

• Provides alarm for over or under temperature, or diagnostic error

• Provides visual and audible indications of an alarm

• The audible alarm **(2)** can be turned on or off with switch **(4)**

• Relay contacts **(5)** are provided to allow hook-up of remote equipment such as a light, a conveyor or a machine function

• Relay contacts are unaffected by the position switch **(4)**

• An infinite number of zones of control can be monitored as long as they are contained within the same communications-style mainframe as the TAS module

System Control Functions

Up to 63 zones can be controlled remotely at one time. These zones must be contained within the same communications-style mainframe as the TAS module.

NORMAL / IDLE

• Rotary switch **(6)** provides remote control of DSS-15-02/01, DSS-15-12/11, CSS-15-02/01, SSM-15-02/01, and SSM-15-12/11

• Control modules can all be commanded to respond from NORMAL to IDLE (Standby Heat)

• In IDLE, the modules will adjust to a setting of 93°C (200°F)

   Exceptions: SSM-15-02/01 and SSM-15-12/11 adjust to a setting of 100°C (212°F)

• Moving the rotary switch back to NORMAL restores all modules to their established setpoints

• The user can select IDLE for temporary lowering of all zones to prevent material degradation

• This feature can be used to keep heaters warm enough to prevent absorption of moisture

BOOST / OFF

• The SSM-15-02/01 and SSM-15-12/11 can be placed into BOOST and OFF

• BOOST will raise the setpoint of the module by 10, 20, or 30%

• OFF shuts off power to the heater but allows the user to monitor cool down of the hot runner system

• Each SSM-15-02/01 and SSM-15-12/11 can be individually programmed to respond to OFF, IDLE and BOOST commands

• The user can quickly drive all nozzle zones into BOOST to open frozen gates

Front Panel Controls and Indicators

1. Power On Indicator: LED illuminates when power is applied to the module.

2. Audible Alarm: Emits a loud audible alarm when the alarm switch (**4**) is placed in the "1" position (ON) and an alarm condition is sent by a compatible control module.

3. Alarm Indicator: LED illuminates when an alarm condition is sent by a compatible module.

4. Audio Alarm On/Off Switch: Turns the audio alarm **(2)** on or off.

5. Alarm Relay Connector Provides relay contacts for use with remote equipment. Mating connector is supplied.

6. System Control Switch: Activates the OFF, IDLE and BOOST mode in all compatible modules.

7. Power On/Off Switch: Controls AC power to the module.

Temperature Alarm/System Control Modules

ITEM NUMBER	VOLTS
TAS-05-12	240 VAC
TAS-05-11	120 VAC

NOTE: Standard (240 VAC) modules are compatible with mainframes wired for either 240 VAC three-phase (standard) or 240 VAC single-phase. Use TAS-05-11 for 120 VAC operation.

FUSE REQUIREMENTS: (2) ABC-1 fuses. NOTE: (2) spare fuses included with module.
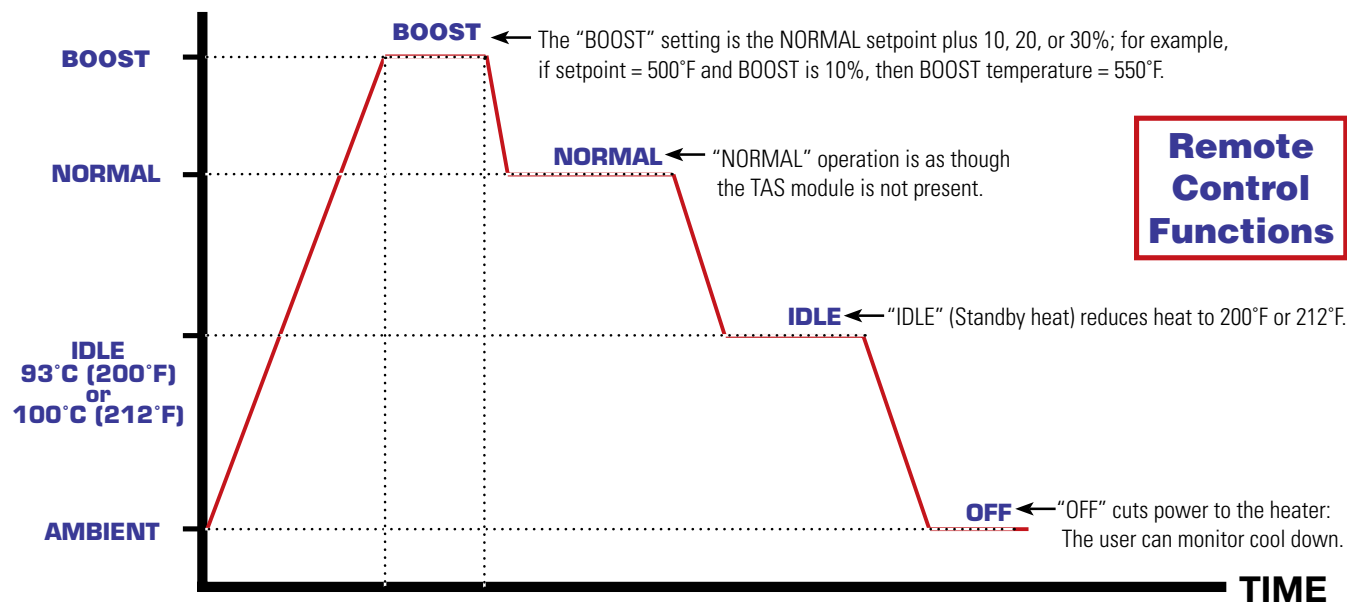
WARRANTY: Three years (excluding fuses).

TAS Module Compatibility

MODULE	FUNCTIONS			
	ALARM	IDLE	BOOST	OFF
SSM-1502/01/12/11	✓	✓	✓	✓
SSM-3002/12	✓	✓	✓	✓
DSS-1502/01/12/11	✓	✓		
DSS-3002/12	✓	✓		

MODULE	FUNCTIONS			
	ALARM	IDLE	BOOST	OFF
CSS-1502/01	✓	✓		
CSS-3002	✓	✓		
SSM-15G	✓			
SSM-15G1	✓			
SSM-30G	✓			

Note: TAS module is not compatible with older CSS-15G/30G or DSS-15G/30G modules

BOOST ← The "BOOST" setting is the NORMAL setpoint plus 10, 20, or 30%; for example, if setpoint = 500°F and BOOST is 10%, then BOOST temperature = 550°F.

BOOST

NORMAL ← "NORMAL" operation is as though the TAS module is not present.

NORMAL

Remote Control Functions

IDLE 93°C (200°F) or 100°C (212°F)

IDLE ← "IDLE" (Standby heat) reduces heat to 200°F or 212°F.

AMBIENT

OFF ← "OFF" cuts power to the heater: The user can monitor cool down.

TIME

Upgrade Kits For Converting to Communications Mainframes

ITEM NUMBER	MAIN FRAME
CIK-4	4-ZONE
CIK-5	5-ZONE
CIK-7	7-ZONE
CIK-8	8-ZONE
CIK-11	11-ZONE
CIK-12	12-ZONE
CIK-16	16-ZONE
CIK-20	20-ZONE
CIK-24	24-ZONE

ITEM NUMBER	MAIN FRAME
CIK-28	28-ZONE
CIK-32	32-ZONE
CIK-36	36-ZONE
CIK-40	40-ZONE
CIK-44	44-ZONE
CIK-48	48-ZONE
CIK-2HP	2-ZONE HIGH POWER
CIK-3HP	3-ZONE HIGH POWER
CIK-5HP	5-ZONE HIGH POWER