

# PROGRAMMING INSTRUCTIONS



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## 20 SERIES ELECTRONIC CONTROLLER

### GENERAL:

**Note:** Display automatically shows the Room Temperature and the Controller returns to normal operation whenever the programming sequence is stopped for 5 seconds.

If the unit does not have output power yet controller appears to operate call the Help Hotline: 800-338-5756 or 507-893-4806 about fuse (13AG5AMP250V).

### 20 SERIES FEATURES

3 ZONE	SOLENOID 1			SOLENOID 2			SOLENOID 3		
3 Stage	1	2	3	1	2	3	1	2	3
	Temp Set	Temp Set	Temp Set	Temp Set	Temp Set	Temp Set	Temp Set	Temp Set	Temp Set
	Min On	Min On	Min On	Min On	Min On	Min On	Min On	Min On	Min On
	Min Off	Min Off	Min Off	Min Off	Min Off	Min Off	Min Off	Min Off	Min Off

**RELAY PORT** : This is used to activate relay.     **OVERRIDE PORT**: For connecting humidistat or dehumidistat.

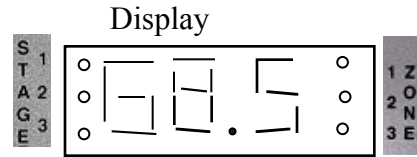
### EXAMPLE:

Stage	Temp.	ZONE 1 (solenoid)		ZONE 2 (solenoid)		ZONE 3 (solenoid)		
		Min. On	Min. Off	Min. On	Min. Off	Min. On	Min. Off	
1	78°F	1	0	1	0	1	30	33
2	82°F	2	0	2	0	2	25	31
3	90°F	3	0	3	0	3	15	24

## SETTING CONTROLLER:

### Plug In Controller

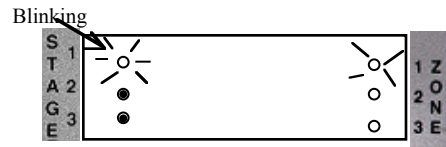
Display cycles - then shows room temperature.



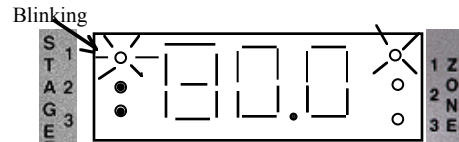
1. **Stage 1.** Press



Stage 1 Blinking LED light allows programming  
Zone 1 blinking - set solenoid



2. Press

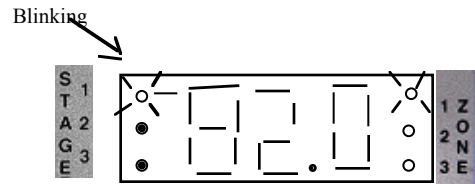


3. Press



Use arrow key to raise or lower start temperature.

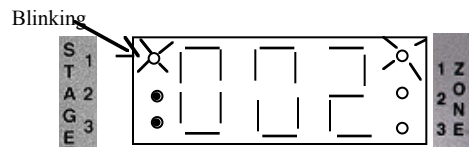
Or



4. Press



Show present setting in minutes (0-999).

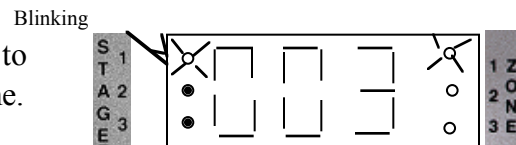


5. Press



Use up or down arrow to increase or decrease time.

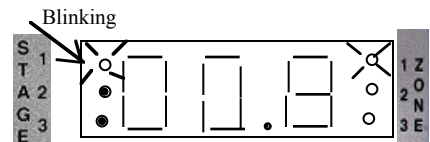
Or



6. Press



Show present setting in minutes (0-999).



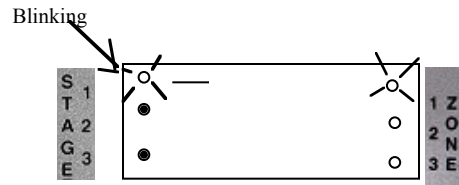
7. Press



Or



Use up or down arrow to increase or decrease time off.

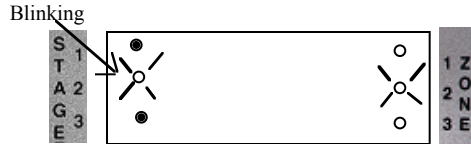


### Stage 2 and 3

Press



To set stages 2 or 3 press till blinking LED light is on desired stage. Repeat steps 2-7.



### Repeat - Stage settings for Zone (solenoid) 2 & 3

At completion of program settings wait 15 seconds to allow storage of new program.

### On/Off

Press



Display shows off.



### High Temperature

Press



Shows highest room temp. since reading was last reset



Note: This value will remain in memory if any other key is pressed within 5 seconds. If no other key is pressed within 5 seconds the display will flash (or blink) 5 times then reset to the present room temperature. The control will begin storing a new high temperature.

### Low Temperature

Press



Shows lowest room temp. since reading was last reset.



Note: Procedure for retaining this value in memory or resetting it to room temp. is the same as described above for the high temperature.

Press



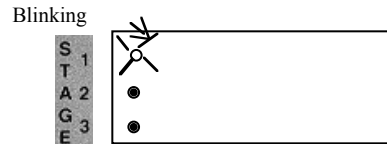
This changes the temperature between Celsius and Fahrenheit.

### Loss of Power

Programming date is stored in memory.

### Check Settings

Press



Set blinking LED light on the desired stage.

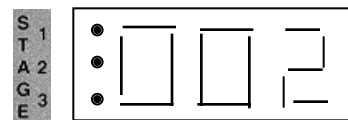
Press



Or



Or



Reads present setting.

### Auto-Reset

A 5 second delay resumes room temperature.

