

PARAMETER	DESCRIPTION	RANGE	JCI Factory DEFAULT	Pro Factory SETTING	FIELD SETTING
<b>STAGE CONTROL SETTING</b>					
	Mode of Operation (direct, reverse, deadband, independent setpoint)	4d, 4r, 4b, 4i	4d	4d	
<b>FUNCTIONS AND SETTINGS</b>					
S1	Setpoint, relay cutoff point (Mode d)	-44 to 99°F	---	---	
H1	Differential (Hysteresis), temperature difference relative to setpoint or offset at which load is switched on or off	1 to 9 °F (not 0)	5	1	
S2 (Offset)	Setpoint 2, difference between setpoint and Stage 2	1 to 40 °F (not 0)	5	1	
H2	Differential (Hysteresis), temperature difference relative to setpoint or offset at which load is switched on or off	1 to 9 °F (not 0)	5	1	
S3 (Offset)	Setpoint 3, difference between setpoint and Stage 3	1 to 40 °F (not 0)	5	3	
H3	Differential (Hysteresis), temperature difference relative to setpoint or offset at which load is switched on or off	1 to 9 °F (not 0)	5	1	
S4 (Offset)	Setpoint 4, difference between setpoint and Stage 4	1 to 40 °F (not 0)	5	4	
H4	Differential (Hysteresis), temperature difference relative to setpoint or offset at which load is switched on or off	1 to 9 °F (not 0)	5	1	
LL	Low Setpoint Stop, lower limit of setpoint adjustment	-40 °F to HL	32	25	
HL	High Setpoint Stop, upper limit of setpoint adjust	LL to 99 °F	90	90	
Cc	Anti-Short Cycle Timer, Cool	0 to 9 minutes	2	2	
CH	Anti-Short Cycle Timer, Heat	0 to 9 minutes	0	0	
rt	Soft Start, Rate at which the process temperature approaches the setpoint	0 to 99 min/ degree	10	0	
AH	High Temperature Alarm, setpoint relative to main setpoint	0 to 50 °F above setpoint	15	15	
AL	Low Temperature Alarm, setpoint relative to main setpoint	-50 to 0 °F below setpoint	-15	-15	
Ad	Alarm Differential, temperature difference relative to high and low alarms at which alarm output is switched off	1 to 9 °F	5	5	
At	Alarm Time Delay, delay between alarm detection and activation	0 to 99 minutes	15	15	
So	Sensor Offset, compensate for long sensor leads or sensor location	-20 to 20 °F	0	0	
Un	Units Used, temperature units	0=°C 1=°F	1	1	
PU	Display Refresh Rate, time delay between display refreshes	1 to 99 seconds	1	1	
IF	Binary Input Function, configuration for normally closed binary input	0= no binary input 1=shutoff/alarm signalling 2=setback 3=remote shutoff	0	0	
Sb	Setback, value of setpoint shift when binary input is open and IF=2	0 to 20 °F	10	10	
Id	Binary Input Time Delay, time between binary input detection and enabling IF	0 to 99 minutes	0	0	
iS	Interstage Time delay, minimum amount of time between two successive stages	3 to 99 seconds	3	10	

**NOTES:**

[1] Controller Configuration: MS4 Din Rail Mount Control; A99BB-200CC sensor Johnson Controls part number MS4DR24T-11C.

[2] These settings to be used in conjunction with the Installation Bulletin, MS4 Multi-Stage Electronic Temperature Control

[3] Customer may modify settings for their particular system requirements.