

Index Code (Menu) Descriptions:

Reconnect power for at least 12 seconds after changing any control values.
(This is the time needed for the microcontroller to store the parameters to be entered into memory.)

NOTE: Further parameter definitions on pages 12 and 13

Code	Description —Adjusting Range	*Default Setting
SV	Set Point of control – Low Limit to High Limit Value	
ASPI	Alarm Set Point Value – Low limit to high limit (If ALAI=0,1,4 or 5) –0-3600 minutes (If ALAI=12 or 13) –Low limit minus set point high limit minus set point (If ALAI=2, 3, 6 or 11)	18°F
rr	Ramp Rate for the process value. Limits an abrupt change of the process temperature. (Soft start) – 0-360°F 0-200°C/minute (If in=0-90) – 0-3600°/minute (If in = 10)	0.0
oFSt	Offset Value for Manual Reset Only used if integral is 0. – 0 to 100%	0.0
SHIF	Offset shift for process value – 199 count to 199 count See page 18 for instructions	0.0
Pb	Proportional Band 0 - 360°F For ON-OFF control set to 0 See instructions below.	18.0
t _i	Integral (Reset) Time, TI – 0 to 3600 seconds	120 sec.
t _d	Derivative (Rate) Time, TD – 0 to 1000 seconds	30 sec.
LoCL	Local Mode – 0 to 1- 0: No Control Parameters can be changed. 1: Control Parameters can be changed.	1
StL	Following parameters will be upgraded to Level 1 – 0 to 7 0: None 4: ASPI, rr 1: ASPI 5: ASPI, oFSt 2: rr 6: rr, oFSt 3: oFSt 7: ASPI, rr, oFSt	0
CL	Proportional Cycle Time, Heating & Cooling – 0 to 120 seconds	20
	Relay	1
	3-32VDC Pulsed Voltage	0
	Linear Voltage, 4-20ma Current	
in	Input Mode Selection, IN – 0 to 10 0: J Type T/C 5: R Type T/C 1: J Type T/C 6: S Type T/C 2: T Type T/C 7: N Type T/C 3: E Type T/C 9: PT100, JIS 4: B Type T/C 10: Linear Voltage or Current	T/C 0 RTD 8 Linear 10
NOTE: T/C - Close solder gap G5. RTD - Open G5 Located on P.C.B. A909F		

*Factory set before shipping.

****Process alarms are at fixed temperature points.**

Deviation alarms move with set point value.

For convenience, values used can be recorded on the next page.

-----Long Scroll

Index Code	Description —Adjusting Range	*Default Setting
	Alarm Mode Selection**	
ALM	0: Process High Alarm 1: Process Low Alarm 2: Deviation High Alarm 3: Deviation Low Alarm 4: Inhibited Process High Alarm 5: Inhibited Process Low Alarm 6: Inhibited Deviation High Alarm 7: Inhibited Deviation Low Alarm 8: Outband Alarm 9: Inband Alarm 10: Inhibit Outband Alarm 11: Inhibit Inband Alarm 12: Alarm Relay OFF as Dwell Time Out 13: Alarm Relay ON as Dwell Time Out	2
HYST	Hysteresis of Alarm — 0 to 20.0% of SPAN	0.5
CF	°C/°F Selection — 0 to 1 0:°F, 1:°C	0
RESO	Resolution Selection — 0 to 3 0: No Decimal Point Used 1: 1 Digit Decimal 2: 2 Digit Decimal 3: 3 Digit Decimal 2 and 3 can only be used for Linear Voltage or Current (IN=10)	0
CONA	Control Action — 0 to 1 0: Direct (cooling) Action 1: Reverse (heating) Action	1
ERRP	Error Protection — 0 to 3 0: Control OFF, Alarm OFF 1: Control OFF, Alarm ON 2: Control ON, Alarm OFF 3: Control ON, Alarm ON	1
HYST	Hysteresis of ON-OFF control — 0 to 20.0% of SPAN	0.5%
LLLT	Low Limit of Range (SPAN) Adjust for your process — See Instructions on Page 13.	–58
HLLT	High Limit of Range (SPAN) Adjust for your process — See Instructions of Page 13	1832
LCAL	Low Calibration parameter — Refer to Section 6.	32
HCAL	High Calibration parameter — Refer to Section 6.	1112

ON-OFF CONTROL:

For on-off control action the following parameters must be set to zero (0): Proportional band, Integral, Derivative, Cycle time, Offset. The hysteresis (deadband) adjustment must now be used to determine the process oscillations from set point. Setting the hysteresis to a larger number will cause the contactor (or other equipment, to switch less often, but the process will oscillate farther from the set point.