

1. On CONTROLS PB "on", SOLO controllers power up.
2. On power up, "splash" screen shows firmware version (5.150) and output types (LRE).
3. After 3 seconds, enters Operation mode main screen with red PV/green SV display.
4. From main screen, press and hold SET for 3 seconds to enter Initial Setting mode, or press SET to enter Regulation mode.
5. Within a mode, press ROTATE to cycle through parameters, UP/DOWN to change parameters, then press SET to save parameter values. Press SET again to return to Operation mode main screen (Process temp and Setpoint temp).
6. To set up the SL 9696-LRE, check/change the following parameters per this sequence:

Press SET (Hold for 3 sec), press ROTATE				
Id#	Initial Setting Mode	Parameter (red)	Value (green)	Comments
P3-1	Input Type	InPB	B	k T/C type K (-200 - 1300°C)
P3-2	Temperature Unit	TpUn	F	F Temperature unit
P3-3	Input Range High	EP-H	1841	1841 Highest temperature allowed for SV
P3-4	Input Range Low	EP-L	0	0 Lowest temperature allowed for SV
P3-5	Control Mode	CtrM	PID	PID control
P3-7	Heating/Cooling	S-HC	Heat	Heat Output 1 configuration
P3-8	Alarm 1	ALR1	8	8 Alarm 1 type (see Controller Quick Start Guide)
P3-9	Alarm 2	ALR2	6	6 Alarm 2 type (see Controller Quick Start Guide)
P3-10	Alarm 3	ALR3	4	4 Alarm 3 type (see Controller Quick Start Guide)
P3-11	System Alarm	SALR	off	off System Alarm feature disabled
P3-12	On-Line Configuration	CoSH	on	on Allows parameters to be set/changed via RS-485 port
P3-13	Modbus protocol	C-SU	rtu	rtu remote terminal unit
P3-14	Network address	C-nD	11	11,12,13 Zone1, Zone2, Zone3 addresses
P3-15	Baud rate	bPS	9600	9600
P3-16	Bit length	LEN	8	8
P3-17	Parity	Prty	EuEn	Even
P3-18	Stop bit	StoP	1	1
All other parameters		---	No further adjustment required -- push SET to return to main screen	

Press ROTATE		Parameter (red)	Value (green)	Comments
Id#	Operating Settings Mode	Process Temp (PV)	Setpoint Temp (SV)	T/C measured zone temp vs. setpoint temp
P2-1	Run/Stop (Event 1)	r-S	run	Controller run/stop
P2-3	Decimal Point Position	SP	0	0 PV & SV display format: ##### (no decimal point)
P2-4	Alarm 1 High Limit	AL1H	18	18 SV + AL 1H °C, alert
P2-5	Alarm 1 Low Limit	AL1L	18	18 SV - AL 1L °C, alert
P2-6	Alarm 2 High Limit	AL2H	1841	1841 SV + AL 2H °C, alarm -- lamp shutdown
P2-8	Alarm 3 High Limit	AL3H	18	18 SV + AL 3H °C, process ready condition
P2-9	Alarm 3 Low Limit	AL3L	18	18 SV - AL 3L °C, process ready condition
P2-10	Lock Mode	LoC	LOC2	LOC2 Only UP, DOWN and SET keys for SV entry
P2-11	Output 1 Level	out1	000.0	000.0 Monitor output 1 level in % (read only)
return to main screen				

TEMPERATURE CONTROLLER, SOLO SL 9696-LRE FACTORY DEFAULT SETTINGS, LA-306

Revised:

2/2/2022

1. On CONTROLS PB "on", SOLO controllers power up.
2. On power up, "splash" screen shows firmware version (5200) and output types (LrB).
3. After 3 seconds, enters Operation mode main screen with red PV/green SV display.
4. From main screen, press SET and then press ROTATE.
5. PID4 may be set to AUTO or one of groups: PID3 (1560), PID2 (1200), PID1 (840), or PID0 (480)
 - To make changes to PID parameters, press DOWN arrow and select group to change and press SET.
6. Use ROTATE key to scroll through parameters for each group. Make changes on each zone controller according to the table below.
- 7. Make sure PID4 is set to AUTO when finished with above and before locking the controller.**

Press SET, press ROTATE								
Id#	PID Regulation Mode	Parameter (red)	Zone 1 Value (green)	Zone 2 Value (green)	Zone 3 Value (green)	Comments		
P1-1	Autotune PID Loop	RE	OFF (default)	Off	OFF (default Off)	OFF (default Off)		
P1-20	PID Parameter Group 0	PID0	480	480	480	480		
P1-30	Target SV	SU0	480	480	480	480		
P1-40	Proportion Band	P0	110	110	110	110		
P1-50	Integral Time	TI0	8	8	8	8		
P1-60	Derivative Time	TD0	1	2	1	PID derivative setting		
P1-80	Integral Offset	TOFO	10	8	4.5	startup offset		
P1-21	PID Parameter Group 1	PID1	840	840	840	840		
P1-31	Target SV	SU1	840	840	840	840		
P1-41	Proportion Band	P1	150	150	150	150		
P1-51	Integral Time	TI1	6	8	6	PID integral time		
P1-61	Derivative Time	TD1	2	2	1	PID derivative setting		
P1-81	Integral Offset	TOF1	9	35	9	startup offset		
P1-22	PID Parameter Group 2	PID2	1200	1200	1200	1200		
P1-32	Target SV	SU2	1200	1200	1200	1200		
P1-42	Proportion Band	P2	70	70	80	PID integral time		
P1-52	Integral Time	TI2	12	8	12	PID derivative setting		
P1-62	Derivative Time	TD2	1	1	1	startup offset		
P1-82	Integral Offset	TOF2	50	50	50	PID derivative setting (41 default)		
P1-23	PID Parameter Group 3	PID3	1560	1560	1560	1560		
P1-33	Target SV	SU3	1560	1560	1560	1560		
P1-43	Proportion Band	P3	95	70	80	PID proportional band setting		
P1-53	Integral Time	TI3	10	8	10	PID integral time		
P1-63	Derivative Time	TD3	3	2	1	PID derivative setting		
P1-73	Integral Offset	TOF3	70	40	20	startup offset		
Common parameters								
P1-12	Output 1 heating Period	HTPD	1	1	0-99 seconds. Default is 1			
P1-16	PV Offset	TPoF	0.0	0	range: -999 to 999, decimal point =0			
P1-17	Analog High Adjustment	Cr-HA	0	0	limits max signal to SCR			
P1-18	Analog Low Adjustment	Cr-Lo	0	0				
return to main screen								
No further adjustment required -- push SET to return to main screen								