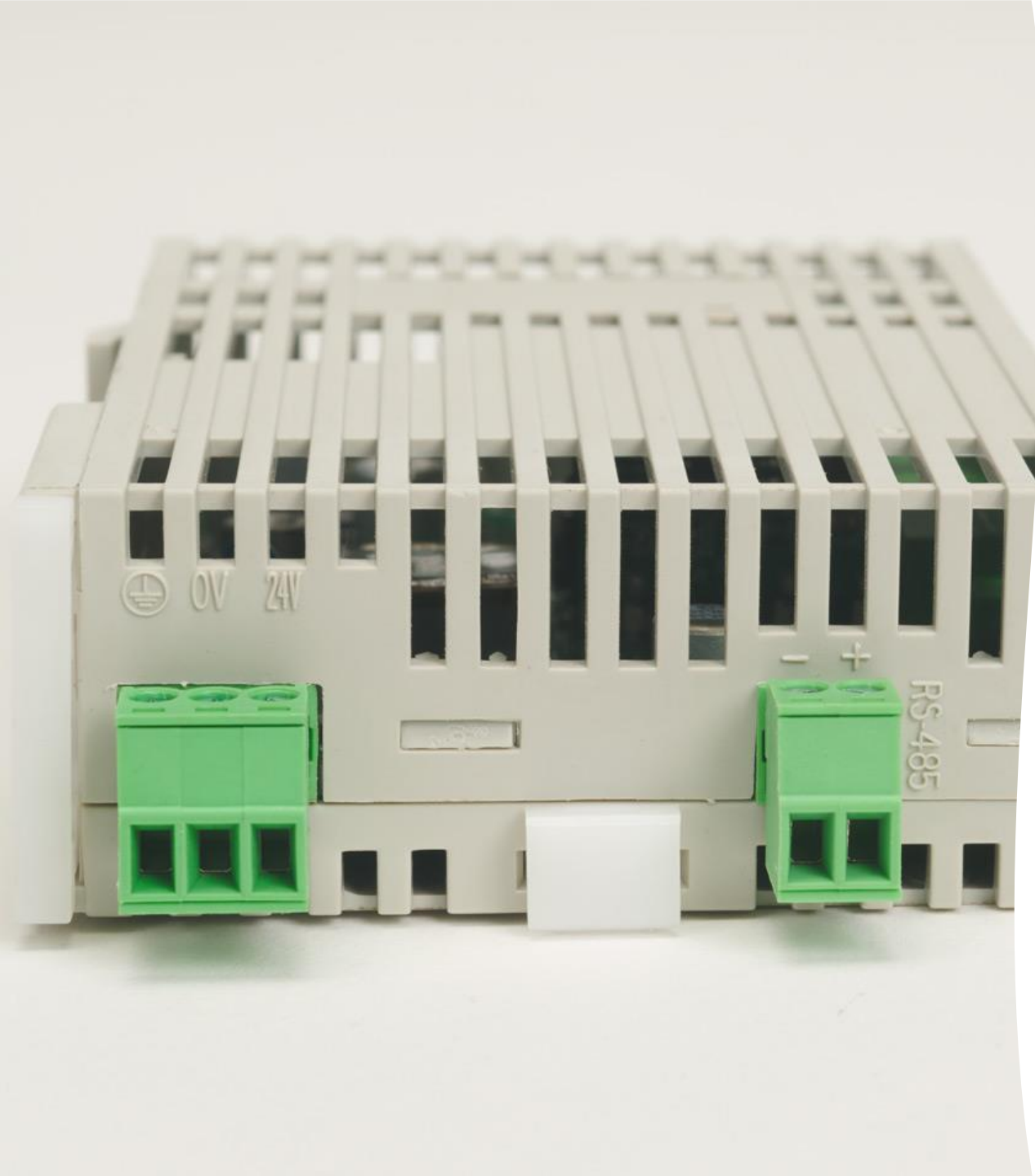


SOLO Modular C-More Example

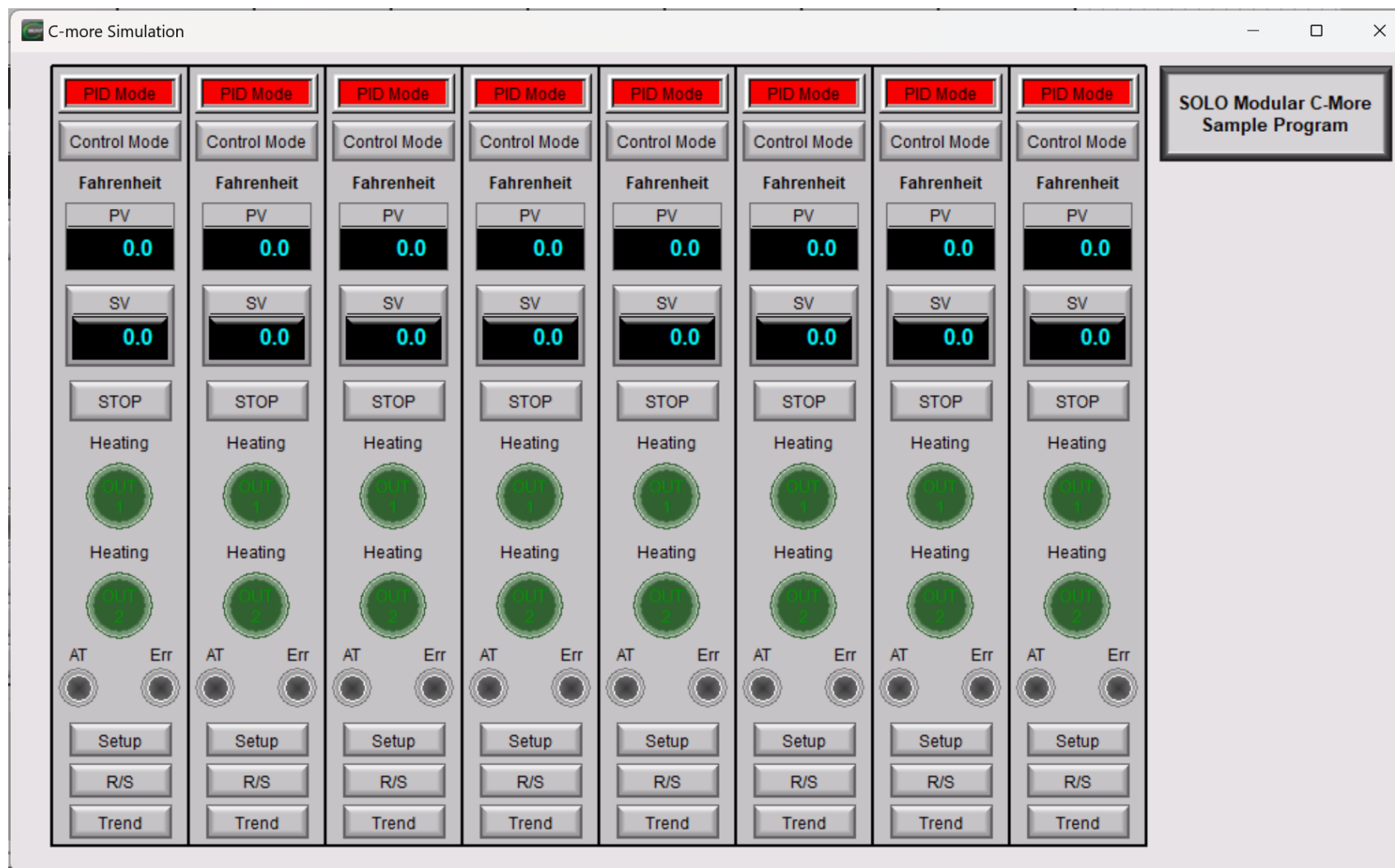
Using the C-More example and how to remove nodes when using a rack of less than 8 units.





Initial Setup

Before connecting the SLM1's communication port to the C-More HMI the factory default communications baud rate and mode need to be changed to 38400 and RTU respectively. This can be done by connecting to a PC and using the SOLO Configuration software or by using the Modbus commands provided in the insert or manual. The maximum number of units that can be connected is 8 with one SLM1 and up to seven SLM2s per a rack. When using one or more SLM2 units the power should be cycled after changing communications settings so the values can be passed to the SLM2 units.



The main screen provides monitoring of the process variable and setting of the setpoint variable. The control mode can also be cycled through by pressing the control mode button. Note that when in ramp soak mode the SV cannot be changed, and the current ramp soak SV is displayed. The LED status and run stop condition can be monitored for each controller from the main screen. Individual controllers can be stopped or placed in run from the main screen as well. If the physical switch on the SLM1 unit is set to stop none of the controllers can be changed to run from the main screen. Links to the setup screen and ramp soak screens can be used for modifying controller values. Trend screens provide a basic trend of process variables.

C-more Simulation

Input Setup	Control Setup	Control Setup	Out 1 Retransmit	Alarm Setup	PID Setup
Type K T/C	PID	Output 2	Normal	OFF	P
Change Input	Change Mode	Heating	Invert Retransmit	Alarm 1 Type	0.0
Fahrenheit	Output 1	OUT2 Type	Retransmit High	Alarm 1 High	I
Temp Unit	Heating	OUT2 Period	0.0	0.0	0
F/C	OUT1 Type	OUT2 Hyst.	Retransmit Low	Alarm 1 Low	D
Temp. High	OUT1 Period	0.0		0.0	0
0.0	OUT1 Hyst.	OUT2 Level (%)		OFF	Integration Def.
Temp. Low	0.0			Alarm 2 Type	0.0
0.0	OUT1 Level (%)			Alarm 2 High	I=0 Comp.
Temp. Offset	0.0			Alarm 2 Low	0.0
0.0					Dual Coef.
					0.0
					Dual Deadband
					0.0

Modbus Address
1
SLM1-R

Autotune

STOPPED

Close

The setup screen provides access to the controller settings and configuration. Input setups allow for cycling through the input types and modifiers for the input. Control setup provides settings for the outputs and the ability to change the output levels when in manual mode. The out 1 retransmit section provides settings that apply to output 1 when it is in retransmit mode. Alarm setup section contains the alarm type and high low settings. PID setup provides the PID parameters. The address and model of the unit are shown for reference in the upper right corner of the screen. Autotune and start stop buttons are also available in the upper right corner of the screen.

C-more Simulation

	Pattern 0	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6	Pattern 7
Step 0 SV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Step 0 Time	0	0	0	0	0	0	0	0
Step 1 SV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Step 1 Time	0	0	0	0	0	0	0	0
Step 2 SV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Step 2 Time	0	0	0	0	0	0	0	0
Step 3 SV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Step 3 Time	0	0	0	0	0	0	0	0
Step 4 SV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Step 4 Time	0	0	0	0	0	0	0	0
Step 5 SV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Step 5 Time	0	0	0	0	0	0	0	0
Step 6 SV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Step 6 Time	0	0	0	0	0	0	0	0
Step 7 SV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Step 7 Time	0	0	0	0	0	0	0	0
Last Step	0	0	0	0	0	0	0	0
Add. Cycles	0	0	0	0	0	0	0	0
Next Pattern	0	0	0	0	0	0	0	0

0

Start Pattern

Time Min

0

Time Sec

0

Current Pattern

0

Current Step

0

Close

The ramp soak screen provides access to the pattern steps and time values, last step per a pattern, additional cycles for a pattern, and the next pattern. The start pattern can also be cycled through using the button in the upper right corner of the screen. The time values, current pattern, and current step are also displayed for the controller.

When using less than 8 controllers for a rack the unused units need to be removed from the main screen and the trend screens for the unused units must also be deleted. This can be accomplished by doing the following steps.

1. Select the units from right to left that will not be used and press the delete key. The units are made up of individual groups so they should select and delete easily. Note: By right clicking and selecting "Object -> library..." the units can be saved to add back later under the "User Object Library" in the Library tab.
2. In the navigation window select the screen tab and click the page with a red x icon to open the delete screen popup. Scroll to the bottom of the list and select the trend screens from that bottom up. Delete the unused trend screens.

Tags can be left in the tag database since unused tags are not called. Example images on next page.

