Modular Temperature Controllers

SOLO[®] Modular Temperature Controllers

SOLO modular temperature controllers consist of one control module and up to seven expansion modules to support up to eight independent control loops. Each module accepts thermocouple, RTD, mA, mV, or voltage inputs and provide two outputs for alarming or PID, On/Off, Ramp/Soak, or manual control modes.



Features

- Compact modular multi-loop temperature control system
- Up to eight temperature control loops
- PID, On/Off, Ramp/Soak, or manual control modes
- Process variable retransmission on current or voltage models
- 24 VDC operating voltage
- Voltage, current, voltage pulse, or relay outputs (depending on model)
- 12 alarm modes
- Additional relay output on all models
- Modbus ASCII/RTU communication via RS-485
- Free downloadable SL-SOFT configuration and monitoring software





Use a PLC, HMI, or PC to collect data from the controllers and then have your program trigger events based on the values

Simple Configuration and Control

FREE configuration and monitoring software

That's right, FREE! Configuration and monitoring software (SL-SOFT, Version 3.0 downloadable from our Web site) allows you to configure each controller with ease and gives you data analysis capabilities for up to 16 units simultaneously.

Solo-Not Connected ×					
	Trend (Right Click	or options)			
C:Wsers/Public	0.000				
C: Users (vubic	4000				
Frend Options					
Autoscale Line Fill Tool Tip	3000				
Process Value	2000				
Set Point 0.0 °	1000				
Control Value (H) 0.00 %					
Control Value (C)					
Address 1.0	Connect Disconnect	P3-5 Control Mode	×	PID Parameter Setup P1-2 PID Parameter Group	
		P3-7 Heating/Cooling	· · ·	P1-3 Target SV	
Configuration Options		SV (Set Point)	¥	P1-4 Proportion Band	
C:\Users\Public\Solo.cfg		SV (SECPORIE)			
Save File Open	n File Write File to Device	Operation Mode			
Controller Setup		P2-1 Run/Stop		P1-6 Derivative Time	
P3-12 On-Line Configuration		P1-1 Auto Tuning	¥	P1-7 PD Offset	
P2-10 Lock Mode	~	Alarm Setup		P1-8 Integral Offset	
Input Setup		P3-8 Alarm 1	×	P1-9 Heating Hysteresis	
P3-1 Input Type		P2-4 Alarm 1 High		P1-10 Cooling Hysteresis	
P3-2 Unit		P2-5 Alarm 1 Low		P1-11 OUT1 Heating Period	
P2-3 Decimal Point Position		P3-9 Alarm 2	×	P2-11 OUT1Level (%)	
P3-3 PP-H Range High		P2-6 Real Alarm 2 High		P1-12 OUT1 Cooling Period	
P3-4 Range Low		P2-7 Alarm 2 Low		P2-12 OUT2 Level (%)	
P1-16 EPEE Offset		P3-10 Alarm 3	v	P1-13 OUT2 Period	
		P2-8 Alarm 3 High		P1-14 Prop Band Coefficient	
Output 1 Setup (Analog Output) P1-17 High Adjustment		P2-9 Alarm 3 Low		P1-15 Dead Band	

FREE software that's easy-to-use and intuitive, with a GUI that make setting up the SOLO series of temperature controllers a breeze. (Download at http://support.automationdirect.com/downloads.html)

Process control setup made easy

All units support RS-485 serial communications (up to 38.4K bps), which allows you to use the free configuration software [SL-SOFT] to configure and monitor multiple SOLO controllers using Modbus RTU or Modbus ASCII protocols. For even simpler setup, the controller can be configured manually with the user-friendly keypad on each unit.

Collect and act on data

Using RS-485 communications, the SL-SOFT utility provides the ability to monitor and log historical data, using the built-in trending graph, from up to 16 devices and save it to a file.

Connect to other hardware

The RS-485 communications of the SOLO Temperature Controller can also provide connection to any HMI, PC or PLC supporting industry-standard Modbus RTU or Modbus ASCII protocol. This allows you to collect, monitor and have your application react to data being read from the SOLO controllers.

PLC Connection

Use a PLC to collect data from the controllers and then have your program trigger events based on the values

HMI Connection

Use an operator interface to collect data and monitor your process.

PC Connection

Use a PC to configure and monitor your SOLO controllers with SL-SOFT. Use the trending graph to monitor and log historical data.







Process Control