SOLO Basic Temperature Controllers

SLB4848 Series Overview
AutomationDirect’s SOLO Basic is a single loop temperature controller that can control heating or cooling processes. Depending upon the particular model of controller, the available outputs include relay, voltage pulse or current. On select models there are two alarm outputs available with nine selectable alarm types. SOLO Basic controllers have a single control output that can be used for control of a heating or cooling application. Models with alarm outputs can also be configured to use one of the alarm outputs as a second control output allowing both heating and cooling control or two stage heating or two stage cooling control. There are three types of control modes: PID, ON/OFF and Manual. SOLO Basic can accept various types of thermocouple and RTDs.

Features
- Auto Tuning (AT) function with PID control
- 1/16 DIN panel size
- 2 line x 4 character 7-segment LCD display for Process Value (PV): Red color, and Set Point (SV): Green color
- Selectable display decimal point XXX.X or XXXX
- Selectable between °C and °F
- UL, CUL and CE agency approvals

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Price</th>
<th>Input Voltage</th>
<th>Output #1</th>
<th>Alarm #1*/Output #2**</th>
<th>Alarm #2*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLB4848-R0</td>
<td>$39.00</td>
<td>100 - 240 VAC</td>
<td>Relay - SPST</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>SLB4848-V0</td>
<td>$39.00</td>
<td>100 - 240 VAC</td>
<td>Voltage Pulse</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>SLB4848-C0</td>
<td>$39.00</td>
<td>100 - 240 VAC</td>
<td>Current</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>SLB4848-R2</td>
<td>$46.00</td>
<td>100 - 240 VAC</td>
<td>Relay - SPST</td>
<td>Relay - SPST</td>
<td>Relay - SPST</td>
</tr>
<tr>
<td>SLB4848-V2</td>
<td>$46.00</td>
<td>100 - 240 VAC</td>
<td>Voltage Pulse</td>
<td>Relay - SPST</td>
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</tr>
</tbody>
</table>

* Alarm #1 and Alarm #2 have a shared common
** Alarm #1 can be configured to function as Alarm #1 or as Control Output #2
Note: A mounting clip is included.

User Configurable Output Options

<table>
<thead>
<tr>
<th>Control Output #1</th>
<th>*Alarm #1 / Output #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating</td>
<td>Alarm #1</td>
</tr>
<tr>
<td>Cooling</td>
<td>**Heating</td>
</tr>
<tr>
<td></td>
<td>**Cooling</td>
</tr>
</tbody>
</table>

* Note: Alarm #1 / Output #2 options are only available on models with alarm outputs.
** Heating and cooling options on Alarm #1 are only available in dual output modes. There are six configuration combinations. See manual for details.

Click on the above thumbnail or go to https://www.automationdirect.com/VID-PS-0017 for a short introductory video on the SOLO Basic Temperature Controllers.
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Specifications

Input Power Requirements
100 to 240 VAC 50 / 60 Hz

Operation Voltage Range
85 to 264 VAC

Power Consumption
5 VA Max

Control Mode
PID, ON/OFF or Manual

Input Accuracy
TC temperature indication accuracy: ±(0.3% of span + 1 digit) at 25°C ambient after 20 minutes warm up. Including NIST conformity, cold junction effect, A/D conversion errors and linearity conformity
RTD temperature indication accuracy: ±(0.2% of span +1 digit)

Vibration Resistance
10 to 55 Hz, 10 m/s² for 10 min, each in X, Y and Z directions

Display
2 line x 4 character, 7-segment LED display
PV: 11mm red
SV: 9.2 mm green

Shock Resistance
Max. 300 m/s², 3 times in each 3 axes, 6 directions

Ambient Temperature Range
32°F to 122°F (0°C to 50°C)

Storage Temperature Range
-4°F to 122°F (-20°C to 65°C)

Altitude
2000m or less

Relative Humidity
35% to 80% (non-condensing)

IP Rating
IP66: Complete protection against dust and powerful water jets from all directions.
(Inside suitable enclosure)

Agency Approvals
UL, CUL, CE (UL file number E311366)

Pollution Degree
Degree 2 - Normally, only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.

Input Types
- Thermocouple* K, J, T, E, N, R, S, B, L, U, TXK (Sampling Rate: 100 ms / per scan)
- Platinum RTD 3-wire Pt100, JPt100 (Sampling Rate: 100 ms / per scan)
- Copper, Nickel RTDs Cu50, Ni120 (Sampling Rate: 100 ms / per scan)

Control Output Options
- Relay (R) SPST max. 5A @ 250 VAC resistive load
- Voltage Pulse (V) DC 12V±15%, output current 40mA Max
- Current (C) DC 4-20 mA output (sourcing) (Load resistance: Max 600Ω)

Alarm Output Option
(2) SPST relays with shared common, 3A @ 250VAC resistive load

*Note: Use only ungrounded thermocouples.
**No corrosive gases

Dimensions
inches [mm]

Scan or click the above QR code to be taken to the SOLO Basic Quick Start Guide
Scan or click the above QR code to be taken to the SOLO Basic Manual

For the latest prices, please check AutomationDirect.com.