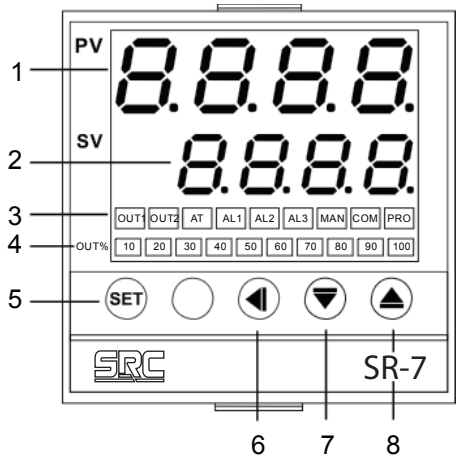
SR Series Digital Process controller

Advanced PID temperature and process controllers

Specifications

- Selectable input from panel(TC,RTD,Analog)
- **PID**, Initial power-up overshoot suppression function
- Super large and bright LED Display
- High Measuring accuracy, 0.2%F.S
- Wide range of power supply 85~265VAC
- SSR drive/Relay/4-20mA/Triac output
- Dual Line 4 digits display
- RS-485, 4-20mA Re-Transmission optional
- Decimal points for all input signals.
- C or F display selected on user's discretion
- Alarm standby function intergrated
- Output graphic bar indication
- Soft-start function(analog output only)

Panel Description



1: Measured value (PV) display [RED]
2: Set value(SV)display [GREEN]
3: OUT1lamp: Output indication
OUT2 lamp: Remark lamp
AT lamp: Auto-tuning indication
AL1 lamp: Alarm 1 output indication
AL2 lamp: Alarm 2 output indication
AL3 lamp: Remark lamp
MAN lamp: Remark lamp
COM lamp: Communication indication
PRG lamp: Remark lamp
4 LED bar: Output1 % value indication
5 SET key: Used for parameter calling up and set Value registration
6 ◀ : Shift key and setting SV key
7 ▼ : Down key, decrease numbers
8 ▲ : Up key ,increase numbers

especialistas en regulación y control de temperatura

Avda. del Cantábrico 11, Pab. 6 • 01013 Vitoria-Gasteiz (Spain)
Tel. (+34)945 25 94 55 Fax - (+34) 945 25 88 52 • www.srcsl.com • info@srcsl.com

Ordering Information

SR - □ □ □ □ □ □
1 2 3 4 5 6

1:Size Information

- **4:** 48mm(Width)*48mm(Height)
- **5.** 48mm(Width)*96mm(Height)
- **6:** 96mm(Width)*48mm(Height)
- **7:** 72mm(Width)*72mm(Height)
- **9:** 96mm(Width)*96mm(Height)

2:Output

- **R:** Relay
- **V:** SSR drive
- **D:** 4-20mA
- **M:** Triac

3:Alarm

- **1:** 1 alarm
- **2:** 2 alarms

6:Modus-RTU RS-485 Communication

- **N:** Without RS-485 Communication
- **K:** With RS-485 Communication

5:PV or SV Re-Transmission Output

- **N:** Without PV or SV re-transmission
- **P4:** PV re-transmission as 4-20mA
- **P5:** PV re-transmission as 0-5VDC
- **P1:** PV re-transmission as 0-10VDC
- **S4:** : SV re-transmission as 4-20mA
- **S5:** SV re-transmission as 0-5VDC
- **S1:** SV re-transmission as 0-10VDC

4:Power Supply

- **96:** 85~265VAC
- **24:** 24VDC

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Example: SR - 4 - R - 1 - 96 - N - K SR controller, size 48mm*48mm, Relay output, 1 alarm, 85~265VAC source, with RS-485 communication.

General Specifications

Power Supply	:85~265VAC/24DC
Power Consumption	:5 VA(Maximum)
Display	:Dual Line four digits.7 segments LED display
Control method	:P, PID ,PI, PD, ON/OFF(P=0)
Control action	:Reverse(heating) or direct(cooling)
Input	:Thermocouple(K,E,J,N,Wu3_Re25,S,T,R,B,) Pt100(Up to 800 C) Voltage and Current(0-5VDC,0-10VDC,0-50mV,0-20mV,0-20mA 2-10VDC, 1-5VDC, 4-20mA)
Measuring Accuracy	:0.2%F.S
Control Accuracy	:+/- 1 Celsius
Alarm output	:1 alarm/2 alarms
Proportional band(P)	:0.0-200.0
Integral time(I)	:1-3600S
Derivative times(D)	:1-3600S
Control Time(T)	:1-999S
Sampling time(T)	:0.25 second/4 times per second
Ambient Temperature	:0^{0}C~50^{0}C
Memory retention	:yes
Ambient humidity	:45%-85% RH(None Freeze)
Package size	:48mm*48mm(6.5cm*6.8cm*12.5cm),48mm*96mm(10.8cm*12.5cm*6cm) :72mm*72mm(12.5cm*8cm*8.2cm),96mm*96mm(12.5cm*10.1cm*11cm)
Unit Weight	:48mm*48mm(0.18kg),48mm*96mm(0.22kg) :72mm*72mm(0.26kg),96mm*96mm(0.32kg)
Communication	:RS-485 modbus RTU