

### Features

- Modern Appearance
- Stylish rotary dial
- Large LCD with backlight
- Adjustable 0...100% in 1% step
- 0-10 VDC / 2-10 VDC output
- Retaining last entered setpoint on power resumption
- Minimum and maximum limit priority
- Customizing availability

### Product Overview

SA-01 is an active LCD setpoint adjuster energized with 24 VAC supply that is designed for use with external controllers. It provides 0...10VDC signal directly proportional to the adjusted value of percentage. The LCD display and the rotary dial allow the users to view and adjust the output value in unit of percentage. It operates with a priority selector that compares the setpoint with either minimum and maximum limit signal.



### Ordering

To order the SA Series Setpoint Adjuster, contact the nearest Cyrus' representative. Specify the desired product code number from product overviews.

### Technical Specifications

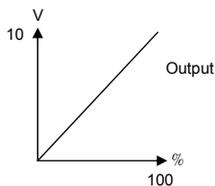
Product Model	SA-01
Power Requirements	24 V $\pm$ 15% 50/60 Hz
Display Range	0...100%
Setpoint Range	0...100%
Minimum and maximum limit priority	0...100%
Input / output signal	0...10 VDC / 2...10 VDC
0...10 VDC input / output load	100 k $\Omega$ impedance
Body Material	Self-extinguishing, molded ABS
Ambient/Storage Temperature Limits	0 to 50 °C / -30 to 50 °C, 10% to 90% RH non-condensing
Agency Approval	CE Mark compliant to EMC and low voltage directives
Shipping Weight	120 g
Dimensions	See Dimensions drawing in mm

## Operation and Application Notes

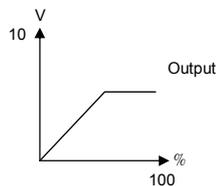
Percentage Display	LCD shows setpoint percentage constantly
Backlight	The backlight will light up for 5 seconds when rotary dial is turned
Percentage Set-point	Increase or decrease percentage set point by turning the rotary dial

- SA-01 Setpoint Adjuster always turned on when power supply is connected.
- 0...10 VDC output of terminal 3 and 4 is directly percentage setpoint.
- 0...10 VDC input of terminal 10 and 11 is to control the output limitation
- JP1 is set as close circuit for minimum limitation priority, remove jumper JP1 if maximum limitation priority is required.
- Remove jumper JP2 if 2-10 VDC proportional output is required.
- Do not bundle and run line-voltage wiring and input/output wiring in the same conduit. Failure to do so may result in poor control performance due to electrical noise.

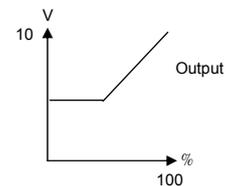
## Maximum & Minimum Limitations



**Positioning Transmitter**  
SA-01 transmits the setpoint value directly



**Maximum Limitation**  
SA-01 operates with Maximum limitation



**Minimum Limitation**  
SA-01 operates with Minimum limitation

## Wiring Diagram & Jumper Settings

### WARNING

Incorrect wiring connection may cause permanent equipment damages to the device

JUMPER SETTINGS		
	JUMPER IN OPEN POSITION	JUMPER IN CLOSED POSITION
JP1	Maximum limit priority	Minimum limit priority
JP2	For 2-10 VDC Output	For 0-10 VDC Output

1. SA-01 works as a positioning transmitter when JP1 is in closed position and no input signal is connected.  
2. JP2 is available in 0-10 VDC/2-10 VDC output models only. Factory setting is 0-10 VDC.

1	24 VAC Power Supply	~
2		⊥
3	Output to Controller	+
4		-
10	Input from limit function	-
11		+

## Dimensions in mm

