

# SC-SG STRIAN GAUGE CONVERTER & ISOLATOR

## FEATURE

- Input modules for 0~1.0 /~2.0 /~3.0 /~4.0 mV/V or 0~10.0 /~20.0 /~30.0 /~40.0 mV/V programmable by dip switches
- Output V & mA selected via terminals and 0~5V / 0~10V / 1~5V / 2~10V / 4~20mA / 0~20mA selected via dip switches
- 22.5 mm thin profile
- CE Approved

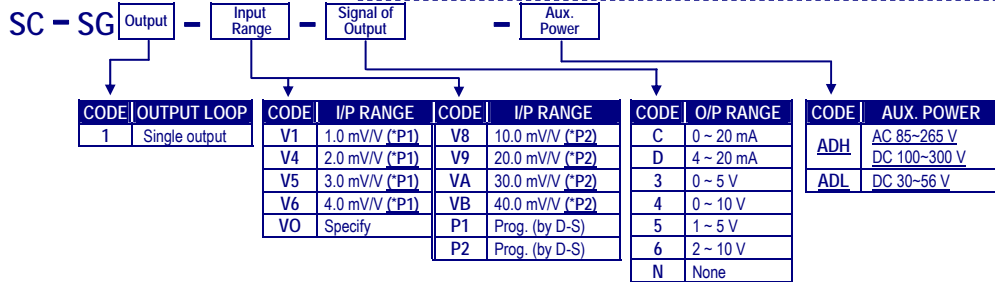


*Slim type*

## ORDERING INFORMATION

### Remark:

- > When you select coding P1, P2 input range, please specify initial range.
- > After change input or output range by dip switches (D-S), re-calibration is to be requested.



## TECHNICAL DATA

Signal input (change input range by dip-switch)

Input Range	Input Signal (Selected by dip-switch on pcb)	Excitation Supply	Input Impedance
0 ~ 40 mV	P1 0~1.0/~2.0/~3.0/~4.0 mV/V	10Vdc ± 0.1%, 30mA	1MΩ
0 ~ 400 mV	P2 0~10.0/~20.0/~30.0/~40.0 mV/V		

Analogue output (change output range by dip-switch)

Output Range	Load Resistance	Output Signal (Selected by terminals)
0 ~ 20mA <sub>dc</sub>	≤ 430Ω	Output 1: Io(mA output by terminal 9+ & 8-) Output 1: Vo(V output by terminal 7+ & 8-)
4 ~ 20mA <sub>dc</sub>	≤ 430Ω	
0 ~ 10V <sub>dc</sub>	≥ 1000Ω	
0 ~ 5V <sub>dc</sub>	≥ 500Ω	
1 ~ 5V <sub>dc</sub>	≥ 500Ω	

- Accuracy: ≤ ±0.2% of F.S. (delivered in customer's specify)  
≤ ±2% of F.S. after range change without recal
- Response time: ≤ 250msec (10%~90% of FS)
- Output ripple: ≤ ±0.1% of F.S.
- Span adjustment: ≤ ±10% of F.S.
- Zero adjustment: ≤ ±10% of F.S.

### Power

- Excitation supply: 5Vdc or 10Vdc ± 0.1%, 30mA
- Power supply: AC 85~265V/DC 100~300V, 50/60Hz  
or DC 30~56V specified in ordering information
- Power consumption: DC 4W, AC 5.0VA

### Environmental

- Operating Temperature: 0~60 °C
- Operating humidity: 20~95% RH, Non-condensing
- Temperature Coefficient: ≤ 100PPM/°C (0~50 °C)
- Storage temperature: -10~70 °C
- Protection: IP 42

### Mechanical

- Dimensions: 81.8mm x 99mm x 22.5mm
- Housing: Self-extinguishing, black ABS, UL94V0
- Terminals: Screw terminal, up to 2 x 2.5mm<sup>2</sup> wire
- Mounting: 35mm DIN rail (EN50022)
- Weight: 250g

### Specification

- Electrical Safety: IEC 61010 (Installation category 3)
- EMC: EN 61326
- Electric Isolation: AC 2.0KV for 1min  
Between Power / Input / Output / Case
- Insulation resistance: ≥ 100MΩ at 500Vdc

## ADJUSTMENT

ZA1: Dip-Switches for range adjust of Input

ZB1: Dip-Switches for range adjust of Output

ZB2: Dip-Switches for range adjust of Output

Output 1 Zero: Zero adjust potentiometer of Output 1 (clockwise: output 1 increase)

Output 1 Span: Span adjust potentiometer of Output 1 (clockwise: output 1 increase)

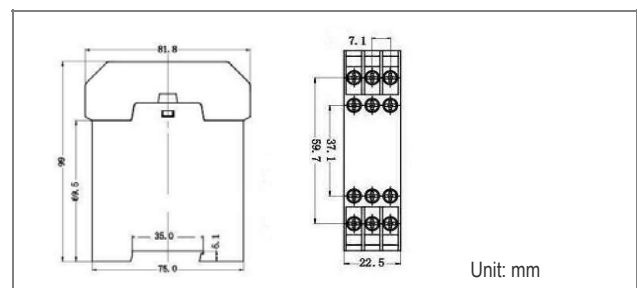
Signal input

mV / V INPUT : (CODE: P1)					mV / V INPUT : (CODE: P2)				
SIGNAL RANGE	DIP SWITCH (ZA1)				SIGNAL RANGE	DIP SWITCH (ZA1)			
	SW1	SW2	SW3	SW4		SW1	SW2	SW3	SW4
0 - 1.0 mV/V	on				0 - 10.0 mV/V	on	on		
0 - 2.0 mV/V		on			0 - 20.0 mV/V		on	on	
0 - 3.0 mV/V			on		0 - 30.0 mV/V			on	on
0 - 4.0 mV/V				on	0 - 40.0 mV/V				on

Signal output

SIGNAL RANGE	DIP SWITCH - ZB1 (ZB1 for O/P)				DIP SWITCH - ZB2 (ZB2 for O/P)			
	OUTPUT				OUTPUT			
	SW1	SW2	SW3	SW4	SW1	SW2	SW3	SW4
0 - 5 V				on	on	on	on	on
0 - 10 V				on	on	on	on	on
1 - 5 V				on	on	on	on	on
2 - 10 V				on	on	on	on	on
0 - 20 mA				on	on	on	on	on
4 - 20 mA				on	on	on	on	on

## DIMENSIONS



## CONNECTION DIAGRAM

