

FEATURE

- Input modules for 0~5V / 0~10V / 1~5V / 2~10V / 4~20mA / 0~20mA or 0~50mV / 0~60mV / 0~75mV / 0~100mV 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
- Dual different signals output available in 22.5 mm thin profile



CE Approved

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.

SC - VA

Output

Input Range

Signal of Output 1

Signal of Output 2

Aux. Power

CODE

OUTPUT LOOP

CODE

I/P RANGE

CODE

I/P RANGE

CODE

O/P RANGE

AD

CODE

AUX. POWER

1

Single output

2

Dual output

A4

0 ~ 20 mA (*P1)

V1

0 ~ 50 mV (*P2)

C

0 ~ 20 mA

D

4 ~ 20 mA

3

0 ~ 5 V

4

0 ~ 10 V

5

1 ~ 5 V

6

2 ~ 10 V

N

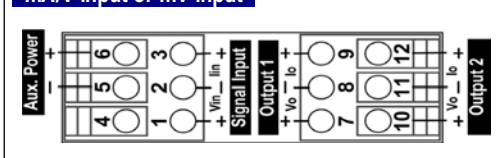
None

AD

AC/DC 20~264 V

CONNECTION DIAGRAM

mA/V input or mV input

SLIM^{TYPE} CURRENT LOOP CONVERTER & ISOLATOR

SC-CL

- Input 4 ~ 20 mA current loop (2 Wire) with 24Vdc excitation supply
- Output V & mA selected via terminals and 0~5V / 0~10V / 1~5V / 2~10V / 4~20mA / 0~20mA selected via dip switches

ORDERING INFORMATION

Remark:

> After change output range by dip switches (D-S), re-calibration is to be requested.

SC - CL

Output

Signal of Output

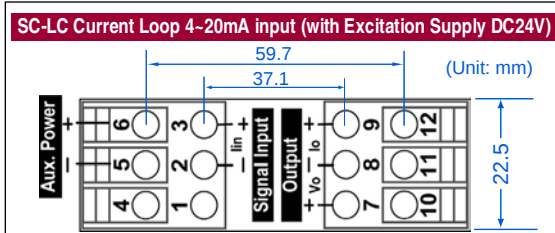
Aux. Power

CODE	OUTPUT LOOP
1	Single output

CODE	O/P RANGE
C	0 ~ 20 mA
D	4 ~ 20 mA
3	0 ~ 5 V
4	0 ~ 10 V
5	1 ~ 5 V
6	2 ~ 10 V
N	None

CODE	AUX. POWER
AD	AC/DC 30~264 V

CONNECTION DIAGRAM

SLIM^{TYPE} STRAIN GAUGE CONVERTER & ISOLATOR

SC-SG

- 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

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.

SC - SG

Output

Input Range

Signal of Output

Aux. Power

CODE

OUTPUT LOOP

1

Single output

CODE

I/P RANGE

V1

1.0 mV/V (*P1)

V4

2.0 mV/V (*P1)

V5

3.0 mV/V (*P1)

V6

4.0 mV/V (*P1)

VO

Specify

CODE

I/P RANGE

V8

10.0 mV/V (*P2)

V9

20.0 mV/V (*P2)

VA

30.0 mV/V (*P2)

VB

40.0 mV/V (*P2)

P1

Prog. (by D-S)

P2

Prog. (by D-S)

CODE

O/P RANGE

C

0 ~ 20 mA

D

4 ~ 20 mA

3

0 ~ 5 V

4

0 ~ 10 V

5

1 ~ 5 V

6

2 ~ 10 V

N

None

CODE

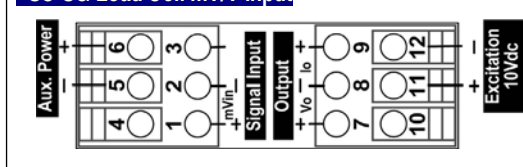
AUX. POWER

AD

AC/DC 30~264 V

CONNECTION DIAGRAM

SC-SG Load Cell mV/V input



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

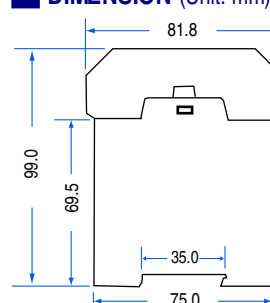
Mechanical

- Dimensions: 81.8mm x 99mm x 22.5mm
- Housing: Self-extinguishing, black ABS, UL94V0
- Terminals: Screw terminal, up to 2 x 2.5mm² 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 / Output1 / Output2 / Case
- Insulation resistance: ≥ 100MΩ at 500Vdc

DIMENSION (Unit: mm)



CSP-VI

DC Signal Transmitter



Accuracy: 0.1%
Wide selection of Input/Output range
Low output ripple: $\leq 0.1\%$ of R.O.
Directric strength: 2000VAC
Power Supply: AC115/230V $\pm 10\%$, 50/60Hz
Option: DC12V, 24V, 48V $\pm 10\%$ (Isolated)
Power consumption: DC3W, AC4.5VA

CSP-T

Temperature (RTD, T/C) Transmitter



Accuracy: RTD 0.1%, T/C 0.2%
Wide selection of Input/Output range
Low output ripple: $\leq 0.1\%$ of R.O.
Directric strength: 2000VAC
Power Supply: AC115/230V $\pm 10\%$, 50/60Hz
Option: DC12V, 24V, 48V $\pm 10\%$ (Isolated)
Power consumption: DC3W, AC4.5VA

CSP-RT

Potentiometer Transmitter



Accuracy: $\pm 0.1\%$ of R. O.
Wide selection of Input/Output range
Low output ripple: $\leq 0.1\%$ of R.O.
Directric strength: 2000VAC
Power Supply: AC115/230V $\pm 10\%$, 50/60Hz
Option: DC12V, 24V, 48V $\pm 10\%$ (Isolated)
Power consumption: DC3W, AC4.5VA

CSP-FI

Frequency Transmitter



Accuracy: $\pm 0.1\%$ of R. O.
Wide selection of Input/Output range
Low output ripple: $\leq 0.1\%$ of R.O.
Directric strength: 2000VAC
Power Supply: AC115/230V $\pm 10\%$, 50/60Hz
Option: DC12V, 24V, 48V $\pm 10\%$ (Isolated)
Power consumption: DC3W, AC4.5VA

MT - series

Application for Signal Converting & Isolation

4 Popular Input & Output ranges Programmable in one
Modular Design, easy maintain and save stock
Changeable Input module between V/mA, Pt100,
Potentiometer, Strain Gauge, and output module
between V/mA, Trip Relay with programming module
Dimension: W50 x H87 x D123mm



Model No.	MT-VI	MT-CL	MT-SG	MT-RTD	MT-RT	MT-FD	MT-DF	MT-FF	MT-DA
Input	Vdc, Adc	mA	mV/V	Pt100Ω	Potentiometer Resistance	Hz	Vdc, Adc	Hz	Vac, Vdc,Aac, Adc
Input Range (V): voltage (A): Current	Programmable by DS (V): 0~10mV... 600V (A): 0~100μA... 5A	4~20mA	Programmable 1.0 ~ 50.0mV/V	Programmable -100 ~ 800°C	Programmable by DS (P): 50 ~ 100KΩ (R): 0~50KΩ	Programmable by DS 0~0.1Hz 50KHz 0~100KHz	Programmable by DS (V): 0~10mV... 600V (A): 0~100μA... 5A	0~0.1Hz 0~50KHz	Programmable by DS (V): 0~10mV... 600V (A): 0~100μA... 5A
Analog Output	(Programmable by dip switch): 0~1V, 0~5V, 1~5V, 0~10V, 0~1mA, 0~10mA, 0~20mA, 4~20mA						Open collect, Mech. Contact, Voltage Pulse		X
Power Supply	Standard AC115 or 230V, 50/60Hz, Option: DC12V, 24V, 48V								

Power Transducers

Application for AC measuring to convert DC signal

Precision measurement even for distorted wave

Output range programmable by dip-switch



Model No.	CA / CV	CW / CQ	CWH / CQH	CWHW	CPF	CF	2 series
Measurement	Current / Voltage	Watt / Var	Watt-Hr / Var-Hr	Watt & Watt-Hr	Power Factor	Frequency	Vac/Vdc & Aac/Adc
Connection	1PW2, 3P3W	(Unbalanced Load) 1P2W, 3P3W, 3P4W, (Balanced Load) 3P3W, 3P4W				1P2W	1P2W, 3P3W
Input Range	Volt: 500V (Line-line) Current: 5A Hz: 45~65/400Hz	Volt: 500V (Line-line) Current: 5A Hz: 45~65/400Hz	Volt: 500V (Line-line) Current: 5A Hz: 45~65/400Hz	Volt: 500V (Line-line) Current: 5A Hz: 45~65/400Hz	Volt: 500V (Line-line) Current: 5A Hz: 45~65/400Hz	Volt: 500V (Line-line) Hz: 45~65/400Hz	Volt: 500V (Line-line) Current: 0~5A/300A
Analog Output	Programmable 10 outputs: 0~1V, 0~5V, 1~5V, 0~10V, 2~10V, 0~1mA, 0~5mA, 0~10mA, 0~20mA, 4~20mA	Programmable 24 outputs: 0~1V, 0~5V, 1~5V, 0~10V, -1~0~1V, -10~0~10V, 0~1mA, 0~10mA, 0~20mA, 4~20mA, -10~0~10mA -20~0~20mA	Programmable 5 outputs: 1count, 10counts, 100counts, 1000counts, 10000counts Open Collect Voltage Pulse Mech. Contact	Programmable 24 range analogue outputs & 5 range pulse outputs: Open Collect Voltage Pulse Mech. Contact	Programmable 24 outputs: 1~3~5V, 0~5~10V, -5~0~5V, -10~0~10V, 0~5~10mA, 4~12~20mA, -10~0~10mA, -20~0~20mA	Programmable 10 outputs: 0~1V, 0~5V, 1~5V, 0~10V, 2~10V, 0~1mA, 0~5mA, 0~10mA, 0~20mA, 4~20mA	Specify: 0~5V, 0~10V, 0~20mA, 4~20mA
Output Accuracy	± 0.2% of F. S.				±0.2% ±0.3° of F.S.		Volt: ± 0.5% Less 100A: ± 0.5% Over 100A: ±1.0%
Max. Input over Capabil ity	(Voltage): 1.5 x rated conti nuou s 2 x rated for 10 secon ds, 4 x rated for 2 secon ds				(Cur rent): 3 x rated conti nuou s 10 x rated for 10 secon ds, 50 x rated for 1 secon d		(Voltage): 1.2 rated (Cur rent): 2 rated
Response Time	0.25 second						0.4 second
Power Supply	AC 110V, 220V, 380V, 416V, 50/60Hz ; Loop Powered DC 24V (CA/CA only) ; Option: DC 12V, 24V, 48V, 110V, 220V						Dc 24V or Loop powered DC24V
Adjustment	(Span Adjustment) 5% or 10 % of F.S.				(Zero Adjustment) 1% or 5% of F.S.		
Dimension	1P2W: 55x75x118 3P3W: 100x75x118	W 100 x H 75 x D 118 (mm)			W55xH75xD118		W36xH89xD83mm