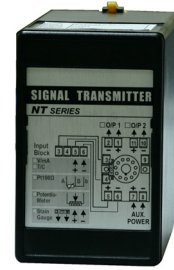


NT-SG STRAIN GAUGE CONVERTER & ISOLATOR

FEATURE

- Measuring 1.0 mV/V ~ 50.0 mV/V for Load Cell, Strain Gauge....
- 4 Input and 6 Popular Output Ranges Programmable by Dip-Switch
- Input type Changeable by difference Input Modules
- Dual difference signal output available
- Low cost and high stability
- CE Approved



ORDERING INFORMATION

NT-SG [Output Loops] - [Input Range] - [Output 1 Range] [Output 2 Range] - [Excit. Supply] - [Aux. Power]

CODE	OUTPUT LOOP	CODE	mV/V I/P RANGE	CODE	mV/V I/P RANGE	CODE	O/P RANGE	CODE	O/P RANGE	CODE	EXCIT SUPPLY	CODE	AUX. POWER
1	Single output	V1	1.0 mV/V (*P1)	V8	10.0 mV/V	A	0 ~ 1 mA	1	0 ~ 100 mV	E5	DC 5 V	A1	AC 115 V
2	Dual output	V2	1.25 mV/V	V9	20.0 mV/V	B	0 ~ 10 mA	2	0 ~ 1 V	E1	DC 10 V	A2	AC 230 V
		V3	1.5 mV/V (*P1)	VA	50.0 mV/V	C	0 ~ 20 mA	3	0 ~ 5 V	E2	DC 12 V	D12	DC 12 V
		V4	2.0 mV/V (*P1)	VO	Specify (mV/V i/p)	D	4 ~ 20 mA	4	0 ~ 10 V	E3	DC 24 V	D24	DC 24 V
		V5	3.0 mV/V (*P1)	P1 Programmable 4 ranges (by D-S): 0~1.0/0~1.5/0~2.0/ 0~3.0 mV/V	I	Specify mA o/p	5	1 ~ 5 V	E0	Specify V o/p	D48	DC 48 V	
		V6	4.0 mV/V		N	None	6	2 ~ 10 V			D11	DC 110 V	
		V7	5.0 mV/V		P	Programmable 6 ranges (by D-S): 4~20/0~20 mA 0~5/0~10/1~5/ 2~10 V	7	-10 ~ +10 V			D22	DC 220 V	
							V	Specify V o/p					

Remark:

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

TECHNICAL DATA

Signal input (change input type & range by input modules & dip-switch)

Input Range	Input Impedance
1.0 mV/V ~ 50.0 mV/V	≥ 1M ohm

Analogue output (change output range by dip-switch)

Output Range	Output Resistance	Output Range	Output Resistance
0 ~ 10mAdc	≤ 600Ω	0 ~ 5Vdc	250Ω
0 ~ 20mAdc	≤ 600Ω	1 ~ 5Vdc	250Ω
4 ~ 20mAdc	≤ 600Ω	0 ~ 10Vdc	500Ω
		2 ~ 10Vdc	500Ω

- Accuracy:** ≤ 0.1% of F.S. (delivered in customer's specify)
≤ 1% of F.S. (range changed by dip-switch)
- Linearity:** ≤ 0.1% of F.S.
- Response time:** ≤ 250msec
- Output ripple:** ≤ 0.1% of F.S.
- Span adjustment:** ≤ 20% of F.S.
- Zero adjustment:** ≤ 20% of F.S.

Power

- Power supply:** AC 115V or 230V ± 15%, 50/60 Hz
DC 12V, 24V, 48V, 110V, 220V ± 10%
- Power consumption:** DC 4W, AC 5.0VA
- Loop powered:** DC 10V, 24 V ± 5%, 60mA

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

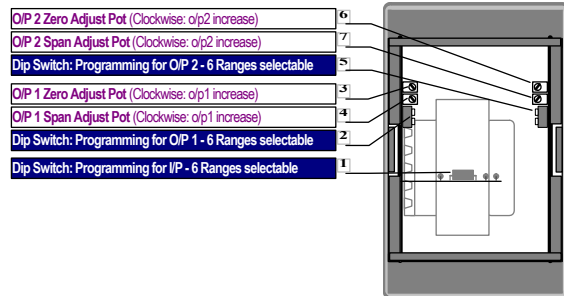
Mechanical

- Dimensions:** 50mm(W) x 87mm(H) x 130mm(D) with socket
- Housing:** Self-extinguishing, black, UL94V0
- Socket:** 11pin, female, black, UL94V0
- Terminals:** Screw terminal, up to 2 x 2.5mm² wire
- Mounting:** 35mm DIN rail (EN50022)
- Weight:** 400g

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

ADJUSTMENT



Programming for input (on input module)

INPUT mV/V : (CODE: P1)	DIP-SWITCH (INPUT)			
	RANGE	SW1	SW2	SW3 SW4
0 ~ 1.0 mV/V	on			
0 ~ 1.5 mV/V		on		
0 ~ 2.0 mV/V			on	
0 ~ 3.0 mV/V				on

Programming for output

OUTPUT V / mA : (CODE: P)	DIP-SWITCH (OUTPUT)				
	RANGE	SW1	SW2	SW3	SW4 SW5
0 ~ 5 V		on	on	on	
1 ~ 5 V	on	on	on	on	
0 ~ 10 V			on	on	
2 ~ 10 V	on		on	on	
0 ~ 20 mA					on
4 ~ 20 mA	on				on

CONNECTION DIAGRAM & SOCKET(11 PIN)

I/P: mV/V(with Excitation DC 10V)
O/P: Analogue V/mA x 1 (or 2)

