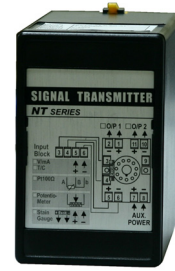


NT-TR RTD CONVERTER & ISOLATOR

FEATURE

- Measuring Pt100Ω - 3 wired
- 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 - TR [Output Loops] - [Temp. Range] - [Output 1 Range] [Output 2 Range] - [Aux. Power]

CODE	OUTPUT LOOP	CODE	TEMP. RANGE	CODE	TEMP. RANGE	CODE	O/P RANGE	CODE	O/P RANGE	CODE	AUX. POWER
1	Single output	A	-50 ~ +50 °C	G	0 ~ 800 °C	A	0 ~ 1 mA	1	0 ~ 100 mV	A1	AC 115 V
2	Dual output	B	0 ~ 50 °C	H	-50 ~ +100 °C	B	0 ~ 10 mA	2	0 ~ 1 V	A2	AC 230 V
		C	0 ~ 100 °C	I	-100 ~ +100 °C	C	0 ~ 20 mA	3	0 ~ 5 V	D12	DC 12 V
		D	0 ~ 200 °C	J	-100 ~ +600 °C	D	4 ~ 20 mA	4	0 ~ 10 V	D24	DC 24 V
		E	0 ~ 400 °C	O	Specify temp. range	I	Specify mA o/p	5	1 ~ 5 V	D48	DC 48 V
		F	0 ~ 600 °C	P1	Programmable 4 ranges (by D-S): 0-100/0-200/ 0-400/0-600 °C	N	None	6	2 ~ 10 V	D11	DC 110 V
				P2	Programmable 4 ranges (by D-S): 0-50/0-100/ 0-200/0-400 °C	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, P2 or P for input and output 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 type & range by input modules & dip-switch)

Input Range	Input Impedance
Pt100Ω(-100~800°C)	≥ 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)
≤ 2% 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

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

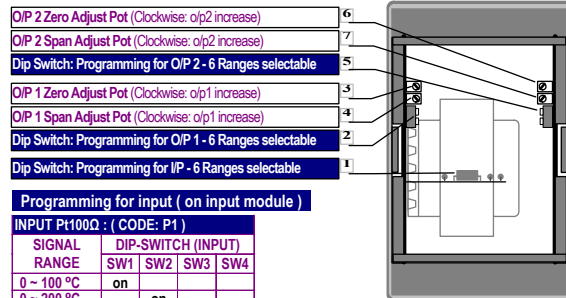
Mechanical

- 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 Pt100Ω : (CODE: P1)

SIGNAL RANGE	DIP-SWITCH (INPUT)			
	SW1	SW2	SW3	SW4
0 ~ 100 °C	on			
0 ~ 200 °C		on		
0 ~ 400 °C			on	
0 ~ 600 °C				on

INPUT Pt100Ω : (CODE: P2)

SIGNAL RANGE	DIP-SWITCH (INPUT)			
	SW1	SW2	SW3	SW4
0 ~ 50 °C	on			
0 ~ 100 °C		on		
0 ~ 200 °C			on	
0 ~ 400 °C				on

Programming for output

OUTPUT V / mA : (CODE: P)

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

CONNECTION DIAGRAM & SOCKET (11 PIN)

