

PROGRAMMABLE ISOLATED SIGNAL TRANSMITTER

NT-D

NT-D transmitter is user configurable with software and interface cable URC-1020 or handheld programmer. The A-Flow is user-friendly software. The latest release version can be download free from website. Interface cable consist of interface converter and USB plug. It can be purchased separately from the supplier. During configuration the transmitter can work alone without connecting to a power source.

Technical Data

- Microprocessor Based**
- DIN Rail Mount**
- Configurable without external Loop Power Connected**
- High accuracy in total ambient temperature range**
- Fault signal on sensor break presettable**
- Dimensions:** 75mm(W) x 87mm(H) x 18.5mm(D)
- Isolation:** 4KV for 1 minute between sensor input and the 4~20mA loop
- Electromagnetic compatibility (EMS):** EN 50081-2, EN50082-2
- Input:** V,mV, mA, PT100Ω, Thermocouple available
- Thermocouples:** Types J,K,T,E,B,R,S,N, according to IEC 60584-1 (ITS-90)
- PT100:** Excitation 180μA, 2 or 3-wire connection, α=0.00385, according to IEC 60751 (ITS-90)
- Voltage:** -60mVdc to 60mVdc or -10Vdc to 10Vdc
- Current:** 0~24mAdc
- Output:** 2-wire loop-power technology, 4~20mA or 20~4mA available
- A/D resolution:** 16 bits
- Input sampling rate:** <200ms
- Power supply:** 18~36VDC
- Max. Load:** (V-10) / 0.02Ω
- Resolution:** 0.6μA (15 bits)
- Response time:** <200ms
- Common mode rejection ratio (CMRR):** >80dB
- Operating temperature:** -40°C to 85°C
- Humidity:** 0~90% RH

Range Table

Sensor Type	Range	Minimum Measurement Span	Accuracy
TC-J	-50 ~ 1000°C	50°C	±1°C
TC-K	-50 ~ 1370°C	50°C	±1°C
TC-T	-270 ~ 400°C	50°C	±1°C
TC-E	-50 ~ 960°C	50°C	±1°C
TC-B	0 ~ 1750°C	100°C	±2°C ¹
TC-R	-50 ~ 1750°C	100°C	±2°C
TC-S	-50 ~ 1750°C	100°C	±2°C
TC-N	-50 ~ 1300°C	50°C	±2°C
PT100	-200 ~ 600°C	20°C	±0.2°C
mV	-60mV~+60mV	-----	±0.01mV
Voltage ²	-10~+10Vdc	5mV	±1mV
Current ²	0~24mAdc	-----	±10μA

NOTE

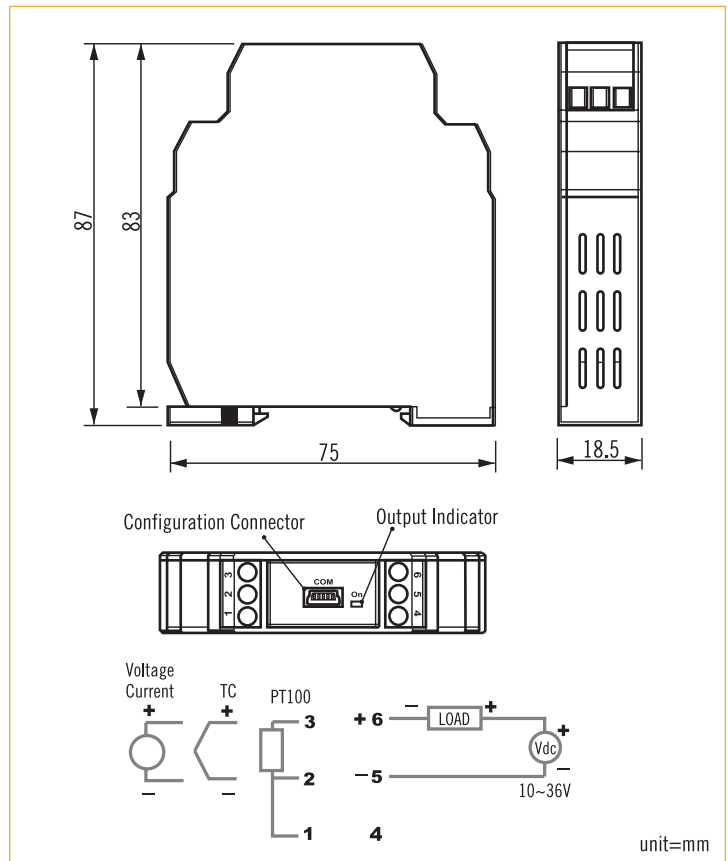
TC-Thermocouple

¹: Accuracy is not guaranteed between 0 and 400°C for type B

²: The internal DIP switch should be set



Dimensions



Ordering Information

NT-D - (1) - 0-100 - A

Code	Input	Sensor Type
(1)	TC-J	(7) TC-S
(2)	TC-K	(8) TC-N
(3)	TC-T	(9) PT100
(4)	TC-E	(10) mV
(5)	TC-B	(11) Voltage
(6)	TC-R	(12) Current

Measurement Span
Please fill in the requested measurement range.

Measurement Span	
(A)	4~20mA
(B)	20~4mA

Расход

Уровень

Температура

Давление

Клапаны