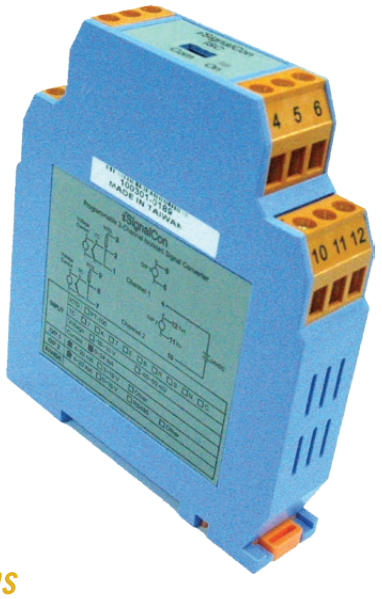
PROGRAMMABLE ISOLATED SIGNAL TRANSMITTER

NT-D

NT-D transmitter is user configurable with the New-Flow software and interface cable URC-1020 or handheld programmer.
The New-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 New-Flow supplier.
During configuration the transmitter can work alone without connecting to a power source.



Technical Data

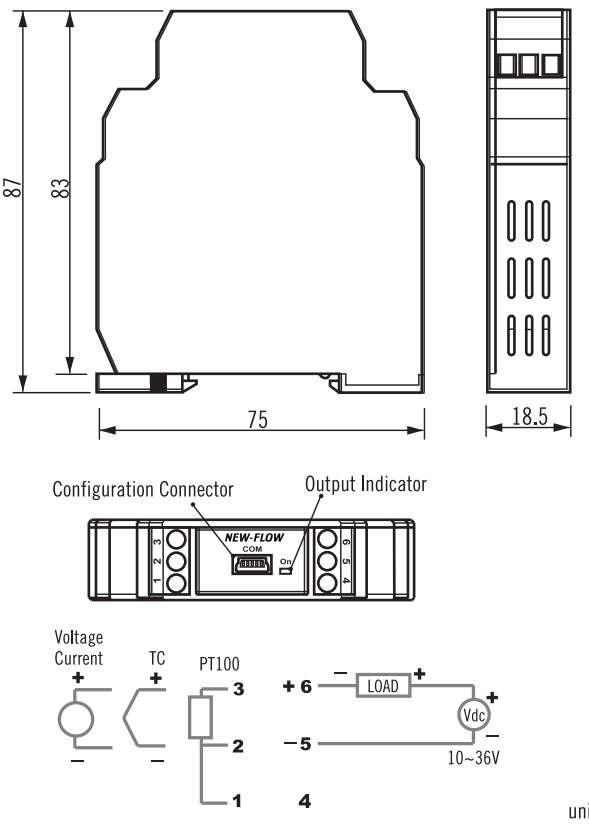
Microprocessor Based
DIN Rail Mount
Configurable without external Loop Power Connected
High accuracy in total ambient temperature range
Fault signal on sensor break presettable
Dimensions: 75mm(W) x 87mm(H) x 18.5mm(D)
Isolation: 4KV for 1 minute between sensor input and the 4~20mA loop
Electromagnetic 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 avarilable
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	Code	Input Sensor Type
		(1) TC-J (2) TC-K (3) TC-T (4) TC-E (5) TC-B (6) TC-R (7) TC-S (8) TC-N (9) PT100 (10) mV (11) Voltage (12) Current

Code	Measurement Span
	Please fill in the requested measurement range.

Code	Output		
A	4~20mA	B	20~4mA

NT-D				Complete Ordering Code

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