



## Temperature Transmitter



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TYPE	TR130/131 Series		TR140/141 Series	
	DIN Rail Non-Isolation		DIN Rail Isolation	
	1 Channel	2 Channels	1 Channel	2 Channels
Input : RTD · TC · Rohm · mV · Linear Current · Linear Voltage				

### Dimensions

TR130/ 131/ 140/ 141 Series

(Unit: mm)

### Function Summary:

Features:	TR130/131 Series	TR140/141 Series
Power Supply(Vdc)	18~32V(Loop-Powered)	18~32V(Loop-Powered)
Ambient temperature range(°C)	-20~60	-20~60
Isolation	None	1500Vac
Channels	1 or 2	1 or 2
CJC Accuracy(°C)	≤ ± 1(Internal)	≤ ± 1(Internal)
<b>Input:</b>		
PT100 Span /min. span(°C)	-200~850 / 10	-200~850 / 10
Rohm Span /min. Span(Ω)	0~400 / 5	0~400 / 5
TC types	B, E, J, K, N, R, S, T	B, E, J, K, N, R, S, T
Linear Current, signal range	0~20mA, 4~20mA	0~20mA, 4~20mA
Linear Voltage, signal range	0~0.5V, 0~1V, 0~5V, 0~10V, 0~20V	0~0.5V, 0~1V, 0~5V, 0~10V, 0~20V
<b>Output:</b>		
2-wire output	4~20mA	4~20mA
Communication	HART	HART

### Technical Summary:

	Basic Accuracy	Temperature Coefficient
PT100	≤ ± 0.5°C	≤ ± 0.005% / °C
Rohm	≤ ± 0.04Ω	≤ ± 0.005% / °C
TC type: E, J, K, N, T	≤ ± 2°C	≤ ± 0.01% / °C
TC type: B	≤ ± 5.5°C	≤ ± 0.04% / °C
TC type: R, S	≤ ± 3°C	≤ ± 0.04% / °C
Voltage	≤ ± 0.01mV	≤ ± 0.005% / °C

### Ordering Information

TR1    - 0  -     -

Type	30: DIN Rail none isolation (1 Channel) 31: DIN Rail none isolation (2 Channels) 40: DIN Rail isolation 1.5KV (1 Channel) 41: DIN Rail isolation 1.5KV (2 Channels)
Communication	0: none      2: HART
Input type	V : DC Voltage      T : Thermocouple/RTD I : DC Current      R : ohm
Unit	0: °C    1: °F    9: Other
Input range	on right
Output	0: 4-20mA

Input type	Unit	Input range
V	V	01 DC Voltage 0~0.5V
		02 DC Voltage 0~1V
		03 DC Voltage 0~5V
		04 DC Voltage 0~10V
		05 DC Voltage 0~20V
I	mA	01 DC Current 0~20mA
		02 DC Current 4~20mA
R	Ohm	01 Resistance 0~400Ohm

Input type	Unit	Input range
T	°C	00 All Type BY Type
		01 K Type -200°C~1370°C
		11 K Type -90°C~320°C
		02 J Type -210°C~1200°C
		12 J Type -90°C~320°C
		03 T Type -200°C~400°C
		04 E Type -200°C~1000°C
		05 R Type -50°C~1760°C
		06 S Type -50°C~1760°C
		07 B Type 250°C~1820°C
08 N Type -200°C~1300°C		
09 PT100 -200°C~850°C		