



Temperature Transmitter



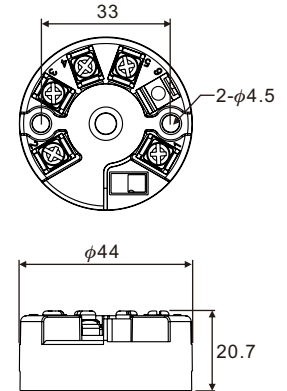
TYPE	TR110 Series	TR120 Series
	Non-Isolation	Isolation
Input : RTD 、 TC 、 Rohm 、 mV 、 Linear Current 、 Linear Voltage		

Function Summary:

Features:		
Power Supply(Vdc)	18~32(Loop-Powered)	18~32(Loop-Powered)
Ambient temperature range(°C)	-20~60	-20~60
Isolation	None	1500V
Channels	1	1
CJC Accuracy(°C)	≤ ± 1(Internal)	≤ ± 1(Internal)
Input:		
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
Output:		
2-wire output	4~20mA / 20~4mA	4~20mA / 20~4mA
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

Dimensions


(Unit: mm)

Ordering Information

TR1 □ □ - 0 □ - □ □ □ □ - □

Type	10: none isolation 20: isolation 1.5KV
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 1: 20-4mA

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	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		



TYPE	TR130/131 Series		TR140/141 Series		Dimensions	
	DIN Rail Non-Isolation		DIN Rail Isolation			
	1 Channel	2 Channels	1 Channel	2 Channels		
Input : RTD · TC · Rohm · mV · Linear Current · Linear Voltage					 (Unit: mm)	
Function Summary:						
Features:	18~32(Loop-Powered)		18~32(Loop-Powered)			
Power Supply(Vdc)	18~32(Loop-Powered)		18~32(Loop-Powered)			
Ambient temperature range(°C)	-20~60		-20~60			
Isolation	None		1500V			
Channels	1 or 2		1 or 2			
CJC Accuracy(°C)	± 1(Internal)		± 1(Internal)			
Input:						
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			
Output:						
2-wire output	4~20mA / 20~4mA		4~20mA / 20~4mA			
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

TR 1 □ □ - 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 1: 20-4mA				

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		