



Temperature Transmitter



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

Function Summary:

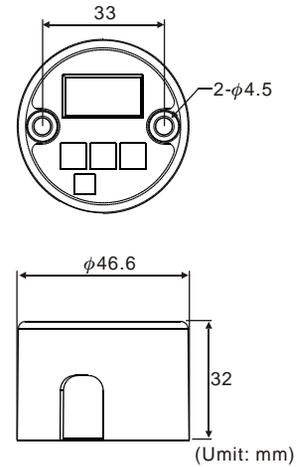
Input:				
PT100 Span /min. span(°C)	-200~850 / 10	-200~850 / 10	-200~850 / 10	-200~850 / 10
Rohm Span /min. span(W)	0~400 / 5	0~400 / 5	0~400 / 5	0~400 / 5
TC types	BEJKNRST	BEJKNRST	BEJKNRST	BEJKNRST
C/JC	Internal	Internal	Internal	Internal
Linear Current, signal range	0~20mA, 4~20mA	0~20mA, 4~20mA	0~20mA, 4~20mA	0~20mA, 4~20mA
Linear Voltage, signal range	0~0.5V, 0~1V, 0~5V, 0~10V, 0~20V,			
Output:				
2-wire output	4~20mA	4~20mA	4~20mA	4~20mA
Communication	HART	HART	HART	HART
Features:				
Power Supply	Loop-Powered	Loop-Powered	Loop-Powered	Loop-Powered
Isolation	None	None	Yes	Yes
Channels	1	1	1	1

Technical Summary:

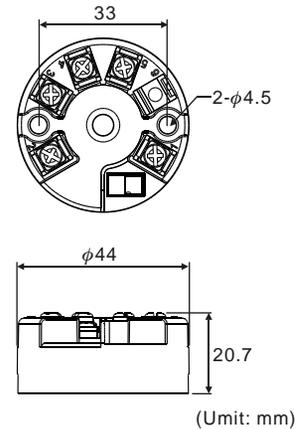
Programmable	ModBus/ HART	ModBus/ HART	ModBus/ HART	ModBus / HART
Ambient temperature range(°C)	-20~60	-20~60	-20~60	-20~60
Power Supply(VDC)	18~32	18~32	18~32	18~32
Galvanic Isolation	NO	NO	1500V	1500V
Basic Accuracy, PT100(°C)	± 0.5	± 0.5	± 0.5	± 0.5
Basic Accuracy, TC type: E,J,K,N(°C)	± 2	± 2	± 2	± 2
C/JC Accuracy (°C)	± 1	± 1	± 1	± 1
Installation	Sensor head	Sensor head	Sensor head	Sensor head

Dimensions

LCD



Non-Display



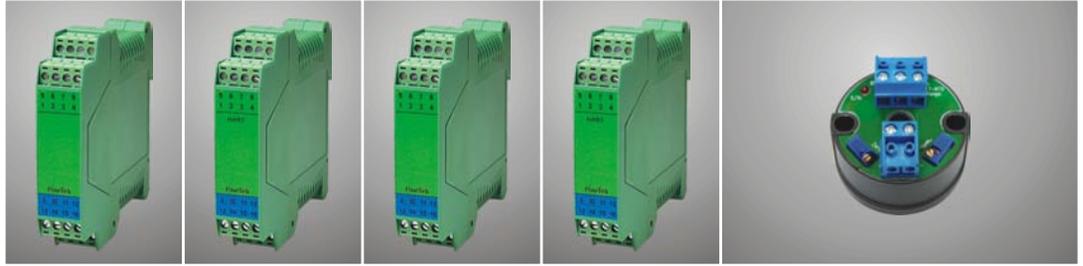
Ordering Information

TR1 □ □ - □ □ - □ □ □ □ - □

Type	10: none isolation 20: isolation 1.5KV 30: DIN Rail none isolation 31: DIN Rail isolation 1.5KV
Display	0:none 1:LCD DIN Rail none display; select 0 only.
Communication	0: none 1: Modbus 2: HART 3: HART, Modbus DIN Rail none Modbus; select 0, 2 only.
Input type	V : DC Voltage T : Thermocouple/RTD I : DC Current R : ohm
Unit	0:°C 1:°F 9:Other
Input range	
Output	0:4-20mA 1:20-4mA

Input type	Unit	Input range
V	0: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	0:mA	01 DC Current 0~20mA
		02 DC Current 4~20mA
R	0:Ohm	01 Resistance 0~400Ohm

Input type	Unit	Input range
T	0:°C 1:°F	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 Series		TR131 Series		TT Series
	DIN Rail Non-Isolation		DIN Rail Isolation		Universal
	Non-HART	HART	Non-HART	HART	Non-Display
Input : RTD 、 TC 、 Rohm 、 mV 、 Linear Current 、 Linear Voltage					

Function Summary:

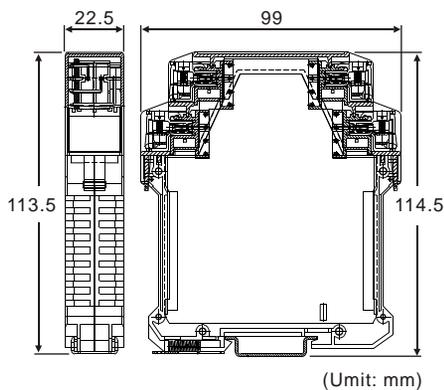
Input:	TR130 Series		TR131 Series		TT Series
PT100 Span /min. span(°C)	-200~850 / 10	-200~850 / 10	-200~850 / 10	-200~850 / 10	-50~800 / 50
Rohm Span /min. span(W)	0~400 / 5	0~400 / 5	0~400 / 5	0~400 / 5	
TC types	BEJKNRST	BEJKNRST	BEJKNRST	BEJKNRST	JKET
CJC	Internal	Internal	Internal	Internal	Internal
Linear Current, signal range	4~20mA	4~20mA	4~20mA	4~20mA	4~20mA
Linear Voltage, signal range	0~20V	0~20V	0~20V	0~20V	0~20V
Output:					
2-wire output	4~20mA	4~20mA	4~20mA	4~20mA	4~20mA
Communication		HART		HART	
Features:					
Power Supply	Loop-Powered	Loop-Powered	Loop-Powered	Loop-Powered	Loop-Powered
Isolation	None	None	Yes	Yes	None
Channels	2	2	2	2	1

Technical Summary:

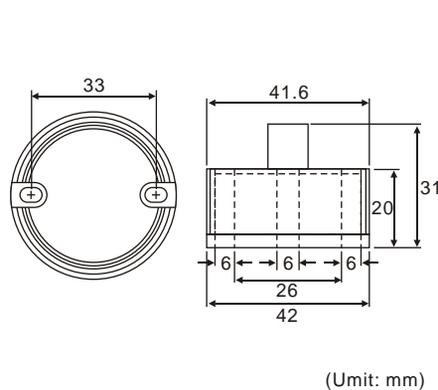
	TR130 Series	TR131 Series	TR131 Series	TR131 Series	TT Series
Programmable	ModBus	ModBus/ HART	ModBUS	ModBUS / HART	None
Ambient temperature range(°C)	-20~60	-20~60	-20~60	-20~60	0~60
Power Supply(VDC)	12~32	12~32	12~32	12~32	20~36
Galvanic Isolation	NO	NO	1500V	1500V	NO
Basic Accuracy, PT100(°C)	± 0.5	± 0.5	± 0.5	± 0.5	± 0.15% F.S.
Basic Accuracy, TC type: E,J,K,N(°C)	± 2	± 2	± 2	± 2	± 0.3% F.S.
CJC Accuracy (°C)	± 1	± 1	± 1	± 1	± 1.5
Installation	DIN Rail	DIN Rail	DIN Rail	DIN Rail	Sensor head

Dimensions

TR130/ 131 Series



TT Series



Ordering Information

TT - □ - □

CODE	TEMPERATURE RANGE	CODE	TEMPERATURE RANGE
A	-50°C~+100°C	G	0°C~500°C
B	-10°C~+40°C	H	0°C~600°C
C	0°C~50°C	I	0°C~800°C
D	0°C~100°C	J	0°C~1000°C
E	0°C~200°C	K	0°C~1200°C
F	0°C~400°C	L	0°C~1300°C

RTD	A	B	C	D	E	F	G	H	I	J	K	L
P	•	•	•	•	•	•	•	•	•			
K			•	•	•	•	•	•	•	•	•	•
J			•	•	•	•	•	•	•			
E		•	•	•	•	•	•	•				
T	•	•	•	•	•							