

type	order no
RI-TTE020-C	602 413

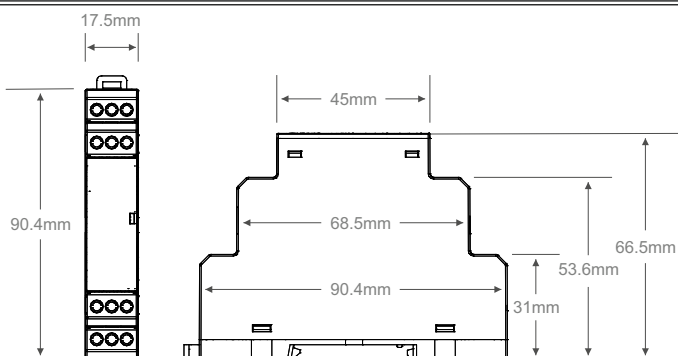
technical specifications

Input type	mV, V, mA, PT100 (2, 3 and 4 wire) and TC (J,K,E,R and S type)		
Input signal range	0 .. 60mV 0 .. 100mV 0 .. 250mV 0 .. 500mV 0 .. 1V 0 .. 2V 0 .. 2.5V 0 .. 5V 0 .. 10V 0 .. 20V	-60 .. 60mV -100 .. 100mV -250 .. 250mV -500 .. 500mV -1 .. 1V -2 .. 2V -2.5 .. 2.5V -5 .. 5V -10 .. 10V -20 .. 20V	0 .. 5mA 0 .. 10mA 0 .. 20mA -5 .. 5mA -10 .. 10mA -20 .. 20mA 4 .. 20mA 0 .. 24mA 4 .. 24mA 0 .. 12mA
Input temperature range (PT100)	-150°C .. 800°C configurable		
Input temperature range (TC)	J : -200°C .. 1200°C configurable K : -200°C .. 1350°C configurable E : -200°C .. 950°C configurable R : -50°C .. 1750°C configurable S : -50°C .. 1750°C configurable		
Sensor excitation current (PT100)	< 0.5mA		
Maximum input signal	30V DC or 50mA DC		
Input impedance	102 kΩ (Voltage input) 30.2 Ω (Current input)		
Measurement error	< %0.1 Full scale		
Interface	RS485		
Protocol	MODBUS RTU		
Baudrate	1200 2400 4800 9600	19200 38400 (Default) 57600	
Parity	None (Default) Even Odd		
Supply current	11 .. 30V DC		
Power consumption	≤ 15mA @ 24V (I _{LOAD} = 0mA)		
Operating temperature range	-20°C .. 60°C		
Protection	Over voltage and reverse polarity protection		
Isolation	1.5kV _{RMS}		
IP class	IP20		
Connection	Screw terminals		
Mounting type	Rail mounted		

modbus table

Input value	Address	Access	Resolution	Unit
Ambient temperature	40001	RO	32 bit float	03H
Input type	40003	RO	32 bit float	03H
Input type - option 1	40005	R/W	32 bit integer	03H / 10H
Input type - option 2	40007	R/W	32 bit integer	03H / 10H
Input type - option 3	40009	R/W	32 bit integer	03H / 10H
Baudrate	40013	R/W	32 bit integer	03H / 10H
Parity	40015	R/W	32 bit integer	03H / 10H
MODBUS slave ID	40017	R/W	32 bit integer	03H / 10H
Record value	40019	WO	32 bit integer	10H

dimensions



MODBUS RTU descriptions

Input type	0 : Voltage / current 1 : PT100 2 : TC
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If Input type is "Voltage / current";

		Input type - option 1		
		0, 1, 2	3, 4, 5, 6	7, 8, 9
Input type - option 2	0	0 .. 60mV	-60 .. 60mV	0 .. 5mA
	1	0 .. 100mV	-100 .. 100mV	0 .. 10mA
	2	0 .. 250mV	-250 .. 250mV	0 .. 20mA
	3	0 .. 500mV	-500 .. 500mV	-5 .. 5mA
	4	0 .. 1V	-1 .. 1V	-10 .. 10mA
	5	0 .. 2V	-2 .. 2V	-20 .. 20mA
	6	0 .. 2.5V	-2.5 .. 2.5V	4 .. 20mA
	7	0 .. 5V	-5 .. 5V	0 .. 24mA
	8	0 .. 10V	-10 .. 10V	4 .. 24mA
	9	0 .. 20V	-20 .. 20V	0 .. 12mA

"Input type - option 3" value must be a 9.

If Input type is "PT100";

Input type - option 1		
0, 1, 2	3, 4, 5, 6	7, 8, 9
PT100-2W	PT100-3W	PT100-4W

"Input type - option 2" value must be a 9.

"Input type - option 3" value must be a 9.

If Input type is "TC";

Input type - option 1				
0, 1	2, 3	4, 5	6, 7	8, 9
J type TC	K type TC	E type TC	R type TC	S type TC

"Input type - option 2" value must be a 9.

"Input type - option 3" value must be a 9.

Baudrate						
0	1	2	3	4	5	6
1200	2400	4800	9600	19200	38400	57600

Parity		
0	1	2
None	Even	Odd

Slave ID 1 .. 247

Record value Enter "100" to save the changes

failure indication

Failure Status	LED Indication
voltage output mode: short circuit	Err: <input type="text"/>

connections

Power input	DC+, DC-	
Analog output	V, Gnd (Voltage input) I, Gnd (current input)	
Input connection	mV input : 4 (+), 5 (-) V input : 6 (+), 2 (-) mA input : 5 (+), 2 (-)	2 wire connection : 4 and 3 3 wire connection : 4 and 2, 3 4 wire connection : 1, 4 and 2, 3
	TC connection : 4, 5	

isolation diagram

