

Temperature signal converter for RTD sensors CC-U/RTD



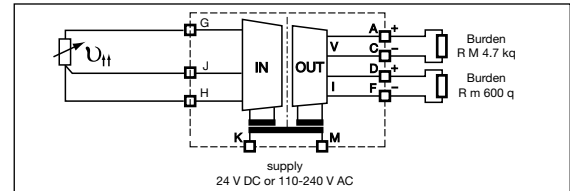
CC-U/RTD

- ① Plug-in connecting terminals
- ② Gain: Coarse adjustment
- ③ Gain: Fine adjustment
- ④ Offset adjustment
- ⑤ U: green LED - supply voltage
- ⑥ Marker label

CC-U/RTD universal signal converter for PT10, PT100, PT1000 temperature sensors (acc. to IEC 751 and JIS C 1604^①, linearized with 3-way electrical isolation)

- Configurable output signal response on input signal interruption (low fail safe / high fail safe)
- Adjustment and operating elements on the front-side
- Short-circuit proof signal outputs
- Plug-in connecting terminals for inputs, outputs and supply

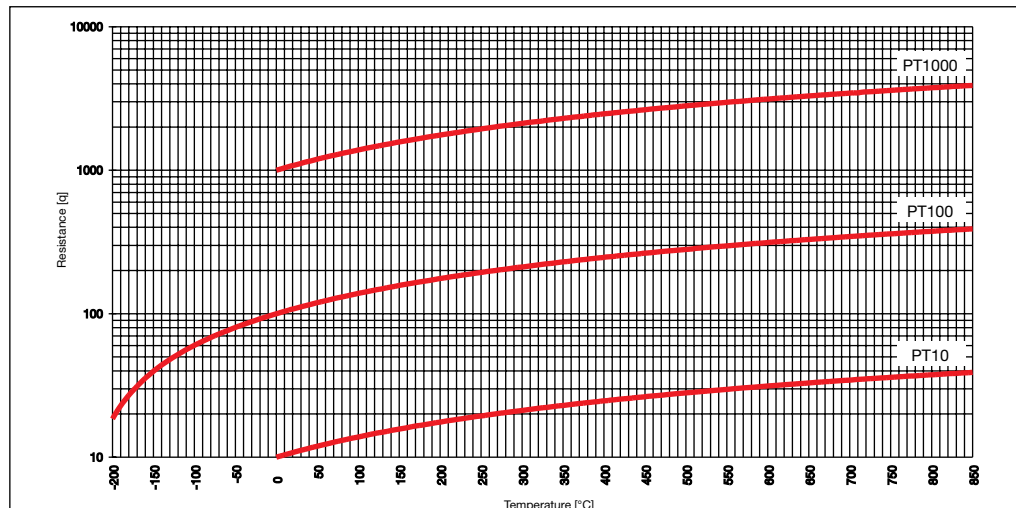
Wiring instruction



Type	Rated supply voltage	Order code	Pack. unit pieces
CC-U/RTD	24-48 V DC	1SVR 040 002 R0500	1
	110-240 V AC	1SVR 040 003 R0600	1

Characteristic curves

Resistance of PT10, PT100 and PT1000 sensors depending on the temperature



DIP switch settings

Type	Input Range	Switch 1						Switch 2						Gain Coarse
		1	2	3	4	5	6	1	2	3	4	5	6	
PT10	0...500 °C													F
	0...550 °C													E
	0...600 °C													D
	0...650 °C													C
	0...700 °C													B
	0...750 °C													A
PT100	0...800 °C													9
	0...850 °C													8
	0...50 °C													F
	0...60 °C													E
	0...70 °C													B
	0...80 °C													A
PT1000	0...90 °C													9
	0...100 °C													8
	0...200 °C													3
	0...300 °C													2
	0...400 °C													1
	0...500 °C													0
Low fail safe *)														-
High fail safe *)														-

Output	Switch 3					
	1	2	3	4	5	6
0...5 V						
0...10 V						
1...5 V						
2...10 V						
-10...+10 V						
-5...+5 V						
-10...0 V						
-5...0 V						
0...6.66 V						
-10...+3.33 V						
-5...+1.66 V						
0...8 V						
0...4 V						
-10...-2 V						
-5...-1 V						
1.25...6.25 V						
-7.5...+2.5 V						
-3.75...+1.25 V						
1.66...8.33 V						
-6.66...+6.66 V						
-3.33...+3.33 V						

Output	Switch 3					
	1	2	3	4	5	6
-8...0 V						
-4...0 V						
0...1 mA						
0...20 mA						
4...20 mA						
0...10 mA						
0...0.5 mA						
0...13.33 mA						
0...666 µA						
0...16 mA						
0...800 µA						
0...8 mA						
0...400 µA						
2.5...12.5 mA						
125...625 µA						
3.33...16.66 mA						
166...833 µA						
0.2...1 mA						
2...10 mA						
100...500 µA						

*) Detection of input signal interruptions:
If the input signal circuit is interrupted, the output signal changes to the adjusted minimum value (low fail safe) or maximum value (high fail safe).

① Japanese standard