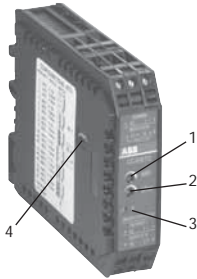


Temperature signal converter for RTD sensors CC-E/RTD

Analog
signal converters

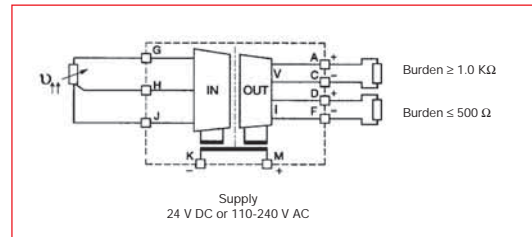


CC-E/RTD

- 1 Gain adjustment
- 2 Offset adjustment
- 3 U: green LED - supply voltage
- 4 DIP switch for input and output configuration (only available on universal devices)

CC-E/RTD temperature signal converter for RTD sensors, linearized with 3-way electrical isolation

- Universally configurable device (type E-RTD)
- 12 single-function devices
- "Plug and Play", no adjustment of single-function devices required
- Temperature signal converter for PT100 sensors
- 2- or 3-wire connection



DIP switch settings for CC-E/RTD (universal)

Input	Output	SW 1					
		1	2	3	4	5	6
0-100°C	0-10 V						
0-100°C	0-20 mA						
0-100°C	4-20 mA						
0-300°C	0-10 V						
0-300°C	0-20 mA						
0-300°C	4-20 mA						
0-500°C	0-10 V						
0-500°C	0-20 mA						
0-500°C	4-20 mA						
-50-150°C	0-10 V						
-50-150°C	0-20 mA						
-50-150°C	4-20 mA						
-50-150°C	0-10 V						
-50-150°C	0-20 mA						
-50-150°C	4-20 mA						
-50-150°C	0-10 V						
-50-150°C	0-20 mA						
-50-150°C	4-20 mA						
High full scale	4-20 mA						
Low full scale							

Legend:
 ON
 OFF
 no influence

Type	Input signal	Output signal	Order code
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Supply voltage: 24 V DC
universal

Type	Input signal	Output signal	Order code
CC-E/RTD	refer to table	0-10 V, 0-20 mA, 4-20 mA	1SVR 011 701 R2500①
single-function			
CC-E RTD/V		0-10 V	1SVR 011 730 R2500
CC-E RTD/I	PT100 0...100 °C	0-20 mA	1SVR 011 731 R1200
CC-E RTD/I		4-20 mA	1SVR 011 732 R1300
CC-E RTD/V		0-10 V	1SVR 011 733 R1400
CC-E RTD/I	PT100 -50...+50 °C	0-20 mA	1SVR 011 734 R1500
CC-E RTD/I		4-20 mA	1SVR 011 735 R1600
CC-E RTD/V		0-10 V	1SVR 011 736 R1700
CC-E RTD/I	PT100 0...300 °C	0-20 mA	1SVR 011 737 R1000
CC-E RTD/I		4-20 mA	1SVR 011 738 R2100
CC-E RTD/V		0-10 V	1SVR 011 739 R2200
CC-E RTD/I	PT100 -50...+250 °C	0-20 mA	1SVR 011 740 R0700
CC-E RTD/I		4-20 mA	1SVR 011 741 R2400

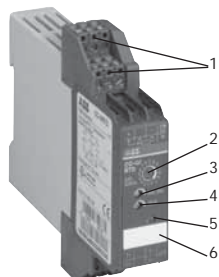
Supply voltage: 110-240 V AC
universal

Type	Input signal	Output signal	Order code
CC-E/RTD	refer to table	0-10 V, 0-20 mA, 4-20 mA	1SVR 011 706 R2200
single-function			
CC-E RTD/V		0-10 V	1SVR 011 788 R2400
CC-E RTD/I	PT100 0...100 °C	0-20 mA	1SVR 011 789 R2500
CC-E RTD/I		4-20 mA	1SVR 011 790 R2200
CC-E RTD/V		0-10 V	1SVR 011 791 R1700
CC-E RTD/I	PT100 -50...+50 °C	0-20 mA	1SVR 011 792 R1000
CC-E RTD/I		4-20 mA	1SVR 011 793 R1100
CC-E RTD/V		0-10 V	1SVR 011 794 R1200
CC-E RTD/I	PT100 0...300 °C	0-20 mA	1SVR 011 795 R1300
CC-E RTD/I		4-20 mA	1SVR 011 796 R1400
CC-E RTD/V		0-10 V	1SVR 011 797 R1500
CC-E RTD/I	PT100 -50...+250 °C	0-20 mA	1SVR 011 798 R2600
CC-E RTD/I		4-20 mA	1SVR 011 799 R2700

Pack. units: 1 piece

① 1604 Class I, Div.2 (universal devices)

Temperature signal converter for RTD sensors CC-U/RTD

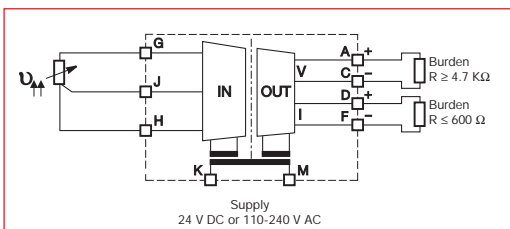


CC-U/RTD

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

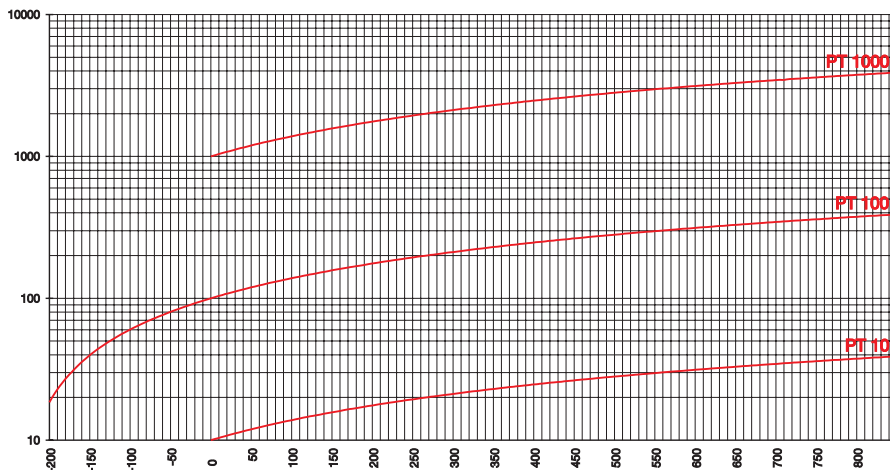
CC-U/RTD universal signal converter for PT10, PT100, PT1000 temperature sensors (acc. to IEC 751 and JIS C 1604*), linearized with 3-way electrical isolation

- 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



) Japanese standard

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



DIP switch settings

	SW1						SW2					
	1	2	3	4	5	6	1	2	3	4	5	6
PT 10												
0...500°C												
0...550°C												
0...600°C												
0...650°C												
0...700°C												
0...750°C												
0...800°C												
0...850°C												
PT 100												
0...50°C												
0...60°C												
0...70°C												
0...80°C												
0...90°C												
0...100°C												
0...200°C												
0...300°C												
0...400°C												
0...500°C												
PT 1000												
0...10°C												
0...20°C												
0...30°C												
0...40°C												
0...50°C												
0...60°C												
0...6°C												
Low fail safe*)												
High fail safe*)												

*) Detection of input signal interruptions:

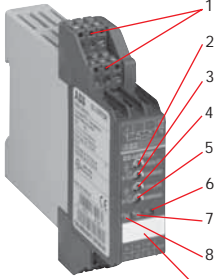
If the input signal circuit is interrupted, the output signal changes to the adjusted minimum value (low fail safe) or maximum value (high fail safe).

Output	SW3					
	1	2	3	4	5	6
0...5 V						
0...10 V						
1...5 V						
-2...+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						
-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						

Legend
■ ON
□ OFF
□ no influence

Type	Supply voltage 50/60 Hz	Order code	Pack. unit pieces
CC-U/RTD	24-48 V DC / 24 V AC	1SVR 040 002 R0500	1
	110-240 V AC / 100-300 V DC	1SVR 040 003 R0600	1

Temperature signal converter for RTD sensors CC-U/RTDR with relay output

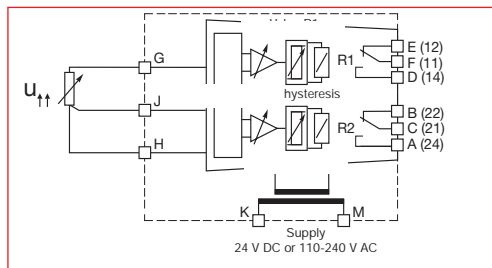


CC-U/RTDR

- 1 Plug-in connecting terminals
- 2 Threshold value for R1
- 3 Hysteresis for R1
- 4 Threshold value for R2
- 5 Hysteresis for R2
- 6 U: green LED - supply voltage
- 7 R2: yellow LED - Relay 2 energized
- 8 R1: yellow LED - Relay 1 energized
- 9 Marker

CC-U/RTDR universal signal converter for temperature and resistance signals, with 2 threshold relay outputs and 3-way electrical isolation

- Temperature signal converter for PT100 signals (5 ranges up to 800 °C) and variable resistances from 0-380 Ω
- 2 threshold relay outputs with one c/o contact each (threshold and respective hysteresis can be adjusted independently from each other)
- Open-circuit or closed-circuit principle configurable by means of a DIP switch
- 2 yellow LEDs for clear status indication of the output relays
- Plug-in connecting terminals for inputs, outputs and supply



DIP switch settings

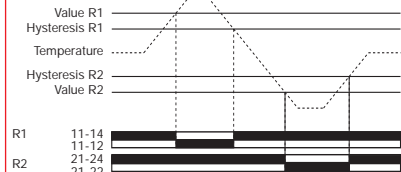
Input PT100	SW1					
	1	2	3	4	5	6
0...100 °C	■					
0...200 °C		■				
0...400 °C			■			
0...600 °C				■		
0...800 °C					■	
Closed-circuit principle	■	■	■	■	■	■
Open-circuit principle	■	■	■	■	■	■

Legend

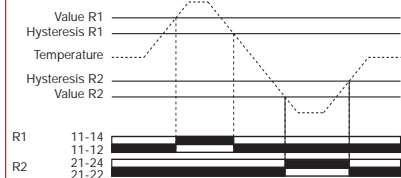
- ON
- OFF
- no influence

Function diagrams CC-U/RTDR

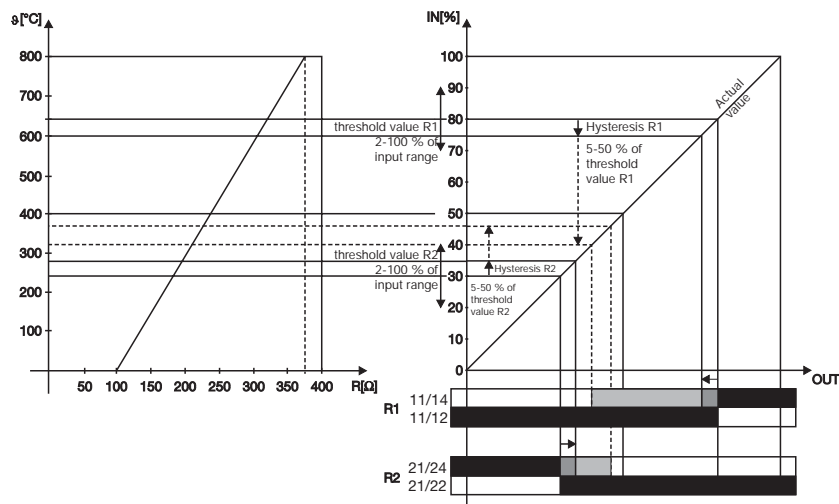
Closed-circuit principle



Open-circuit principle



Switching points of the output relay depending on the input range, configuration open-circuit principle



Type	Supply voltage 50/60 Hz	Order code	Pack. unit pieces
CC-U/RTDR	24-48 V DC / 24 V AC	1SVR 040 012 R2600	1
	110-240 V AC / 100-300 V DC	1SVR 040 013 R2700	1