Temperature signal converter for thermocouples
CC-U/TC

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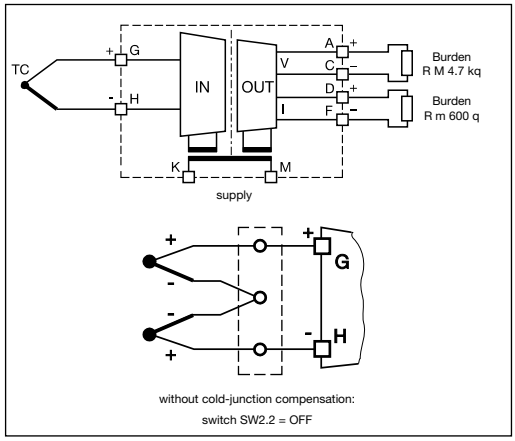
① Plug-in connecting terminals
② Gain: Coarse adjustment
③ Gain: Fine adjustment
④ Offset adjustment
⑤ U: green LED - supply voltage
⑥ Marker label

CC-U/TC universal signal converter for thermocouples with 3-way electrical isolation

- Temperature signal converter for thermocouples of the types K, J, T, S, E, N, R, B
- Continuously adjustable voltage signal input 0-10 mV and 0-50 mV
- Differential temperature measurement possible 1)
- 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/TC	24-48 V DC	1SVR 040 004 R0700	1
	110-240 V AC	1SVR 040 005 R0000	1

DIP switch settings

Output	Switch 2					
	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	■	■			■	■
-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

Input		Switch 1						Switch 2					
Type	Range	1	2	3	4	5	6	1	2	3	4	5	6
K	0-100...900 °C		■		■			■	■				
	0-250...1350 °C		■		■			■	■			■	
J	0-100...750 °C	■						■	■				
T	0-100...400 °C		■	■				■	■				
	-150-0...400 °C		■	■				■	■	■	■		
S	0-250...1550 °C		■	■		■	■		■				
E	0-100...700 °C							■	■				
	0-200...1000 °C							■	■			■	
N	0-100...650 °C				■			■	■				
	0-200...1300 °C		■			■		■	■			■	
R	0-250...1350 °C		■	■	■	■	■		■				
	0-450...1700 °C		■	■	■	■	■		■			■	
B	0-700...1750 °C		■	■	■	■	■						
mV	0-2...10 mV		■	■	■	■	■						
	0-10...50 mV												
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).

Characteristic curves