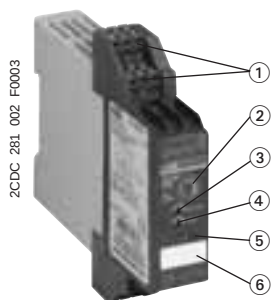


Analog standard signal converter

CC-U/STD

Ordering details

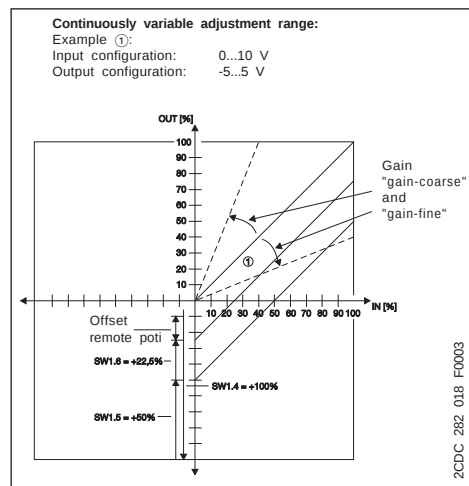
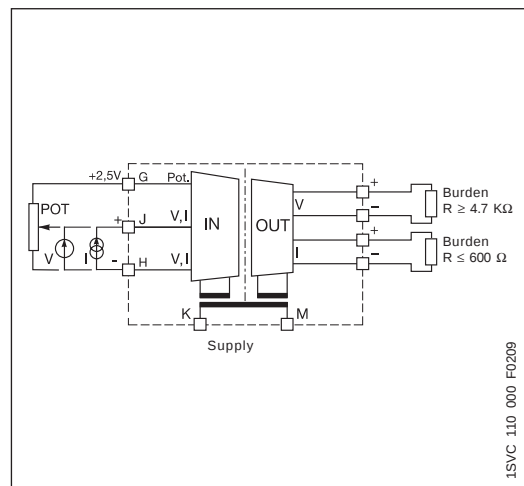


CC-U/STD

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

CC-U/STD universal signal converter with 3-way electrical isolation

- More than 120 configurations possible
- 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
- Very fast signal transmission enables use in control systems
- Approvals



DIP switch settings

Input	SW1								Gain	Coarse Type
	1	2	3	4	5	6	7	8		
Potentiometer									A...D	C
0...50 mV									A...D	C
0...100 mV									4...5	5
0...250 mV									0...1	1
0...500 mV									7...9	8
0...1 V									3...4	3
0...2.5 V									0	0
0...5 V									5...7	6
0...10 V									2	2
1...5 V									7...9	8
2...10 V									2...4	3
-10...+10 V									0	0
0...125 mV									3...4	3
0...8 V									3...4	3
-22.5...+22.5 mV									B...F	D
-11...+11 V									0	0
2.5...7.5 V									5...7	6
3.33...9.99 V									3...4	4
10...0 V									2	2
100...0 mV									4...5	5
0...1 mA									A...D	B
0...20 mA									2...4	3
4...20 mA									4...5	4
10...50 mA									0...1	1
20...4 mA									4...5	4
20...0 mA									4...2	3
-0.45...+0.45 mA									B...F	D
-55...+55 mA									4...6	5
High fail safe *									-	-
Low fail safe *									-	-
No 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). If "No fail safe" is configured, input signal interruptions are not detected.

Output	SW2					
	1	2	3	4	5	6
0...5 V						
0...10 V						
0...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

Type	Supply voltage 50/60 Hz	Order code	Pack. unit pieces	Price 1 piece
CC-U/STD	24-48 V DC / 24 V AC 110-240 V AC / 100-300 V DC	1SVR 040 000 R 1700 1SVR 040 001 R 0400	1 1	

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Analog signal converters CC-U/STD, CC-U/RTD, CC-U/TC Technical data

Input circuits J-G-H	CC-U/STD			CC-U/RTD	CC-U/TC
	Current	Voltage	Potential-meter	temperature sensors	Thermocouples (IEC 584-1 and 2)
Input signals	0-20 mA 4-20 mA 10-50 mA 0-1 mA	0-100 mV 0-1 V 0-5 V 1-5 V 0-10 V 2-10 V ± 10 V	470 Ω ... 1 MΩ	PT10, PT100, PT1000 (IEL 751 and JICC 1604)	TC.K TC.J TC.T TC.S TC.E TC.N TC.R TC.B
Limitation of input signals	± 55 mA	± 11 V	10 kΩ	-	-
Temperature range	-	-	-	Max. Temperature adjustable: 6-60 °C for PT1000 50-500 °C for PT100 500-850 °C for PT 10	refer to temperature specs. of individual thermocouples
Influence of line resistance	-	-	-	0.015 °C/Ω	< 0.01 % / 100 Ω
Gain adjustment range (univ. devices)	0.9- 110 mA	45 mV - 22 V	-	-	-
Offset adjustment range (univ. devices)	-137.5 % ... +62.5 %			± 5 %	± 10 %
Input impedance	for different ranges			-	-
without detection of input signal interruption	51 Ω	6 MΩ	3 GΩ	-	-
with detection of input signal interruption	51 Ω	3.5 MΩ	9.5 GΩ	-	-
Supression at 50 Hz	-	-	-	-	> 40 dB
Common-mode rejection	-	-	-	120 dB	105 dB
Output circuit D-F A-C					
	Current		Voltage		
Output signals	0-20 mA, 4-20 mA			0-5 V, 1-5 V, 0-10 V, 2-10 V, ±10 V	
Output burden	≤ 600 Ω			≥ 4,7 KΩ	
Accuracy	±0,1 % of full-scale			±0,2 % of full-scale	±0,1 % of full-scale
Temperature coefficient	±150 ppm/°C			±250 ppm/°C	±200 ppm/°C at min offset ±400 ppm/°C at max. offset
Residual riple	-	-	-	< 0,15 %	-
Response time	200 μs			10 ms	200 ms
Transmission frequency	1 kHz			80 Hz	2 Hz (bis -3 dB)
Supply circuits K - M					
Supply voltage	24-48 V DC / 24 V AC			110-240 V AC / 100-300 V DC	
Supply voltage tolerance	DC: -15 % ... + 15 %			AC: -15 % ... + 10 %	
Power consumption	2 W at 24 V DC			4.5 VA at 230 V AC	
Indication of operational states					
Supply voltage	U: green LED				
Isolation data					
Test voltage between all isolated circuits	1.5 kV				
Electromagnetic compartibility	acc. to EN 61000-6-4, EN 61000-6-2				
General data					
Operating temperature	-20 °C ... +60 °C				
Storage temperature	-40 °C ... +80 °C				
Mounting position	any				
Mountinh on DIN rail	snap-on mounting / screw mounting with adapter				
Wire size	solid wire	plug-connector with screw terminals 1.5 mm² (16 AWG)			
	stranded wire	plug-connector with screw terminals 2.5 mm² (14 AWG)			