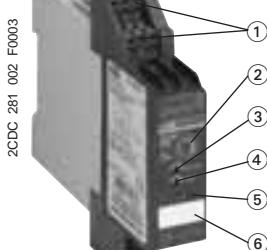


Analog standard signal converter CC-U/STD

Ordering details

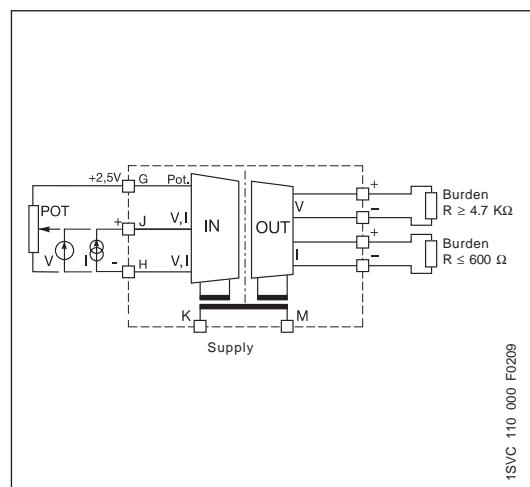
CC-U/STD universal signal converter with 3-way electrical isolation



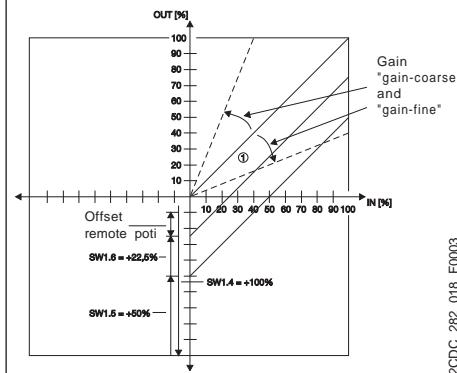
CC-U/STD

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

- 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 US, 1604 class I, div. 2,



Continuously variable adjustment range:
Example ①:
Input configuration: 0...10 V
Output configuration: -5...5 V



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...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 *)									-	-

2CDC 282 019 F0003

Output	SW2					
	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				

2CDC 282 020 F0003

2CDC 282 003 F0004

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	

• Technical data 170 • Dimensional drawings 173

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	Potentiometer	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 \pm 10 V	470 Ω ... 1 M Ω	PT10, PT100, PT1000 (IEL 751 and JICC 1604)	TC.K TC.T TC.E TC.R TC.J TC.S TC.N TC.B		
Limitation of input signals	\pm 55 mA	\pm 11 V	10 k Ω	-	-		
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 %			\pm 5 %	\pm 10 %		
Input impedance	for different ranges			-	-		
without detection of input signal interruption	51 Ω	6 M Ω	3 G Ω	-	-		
with detection of input signal interruption	51 Ω	3.5 M Ω	9.5 G Ω	-	-		
Suppression 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, \pm 10 V			
Output burden	\leq 600 Ω			\geq 4,7 k Ω			
Accuracy	\pm 0,1 % of full-scale		\pm 0,2 % of full-scale		\pm 0,1 % of full-scale		
Temperature coefficient	\pm 150 ppm/ $^{\circ}$ C		\pm 250 ppm/ $^{\circ}$ C		\pm 200 ppm/ $^{\circ}$ C at min offset \pm 400 ppm/ $^{\circ}$ C at max. offset		
Residual ripple	-	-	-	< 0,15 %	-		
Response time	200 μ s		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 compatibility	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						
Mounting on DIN rail	snap-on mounting / screw mounting with adapter						
Wire size	solid wire	plug-connector with screw terminals 1.5 mm ² (16 AWG)					
	stranded wire	plug-connector with screw terminals 2.5 mm ² (14 AWG)					