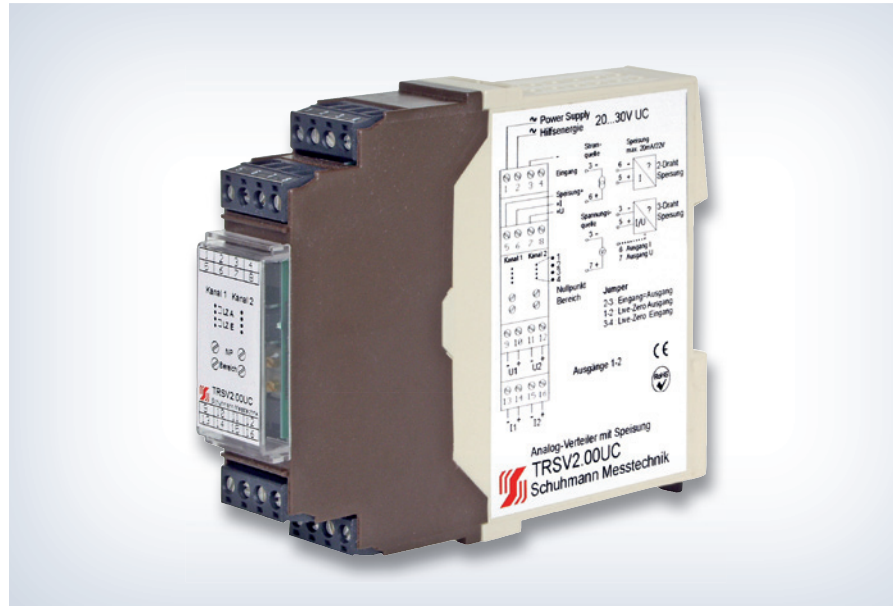




### FEATURES

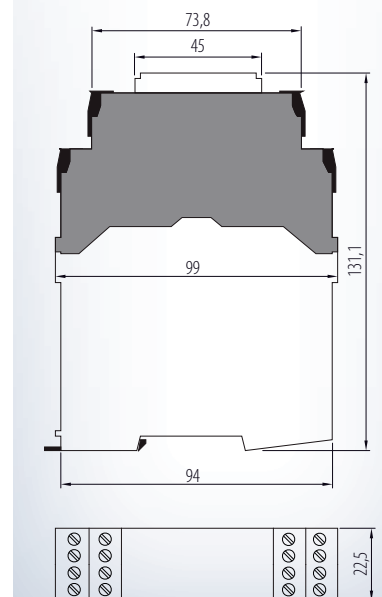
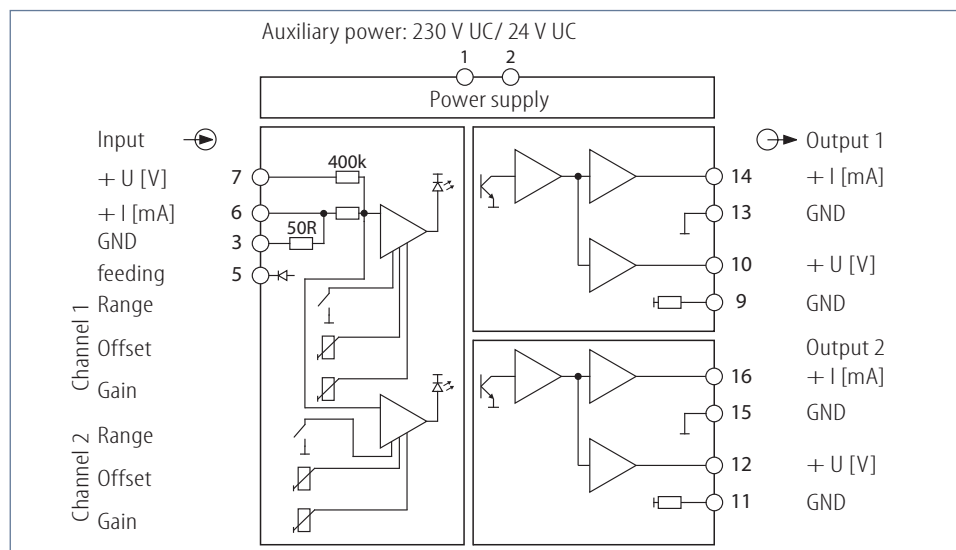
- **Input:**  
Current 0(4)...20 mA or  
Voltage 0(2)...10 V
- **Outputs simultaneous:**  
2x current 0(4)...20 mA and  
2x voltage 0(2)...10 V
- **2-channel distributor**  
(galvanically isolated)
- **Integrated transmitter feeding**
- **Fine-adjustment of  
offset and gain by trimmer**
- **Galvanic 3-way isolation  
per channel**



### FUNCTION

The TRSV 2.00 transfers the input signal to 2 galvanically isolated output channels. Two-wire transducers are fed by the integrated transmitter feeding. Each output channel can be adjusted separately and an individual range value can be set. The fine adjustment for the zero point and final value alignment is being made by trimmer. The transmission or rather the signal conversion of the ranges can be selected with the front sided jumper. An adjustment of the device is not necessary any longer.

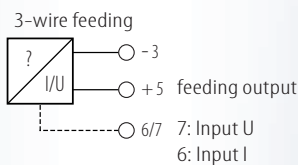
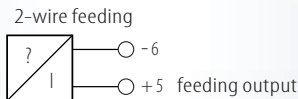
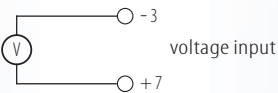
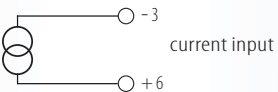
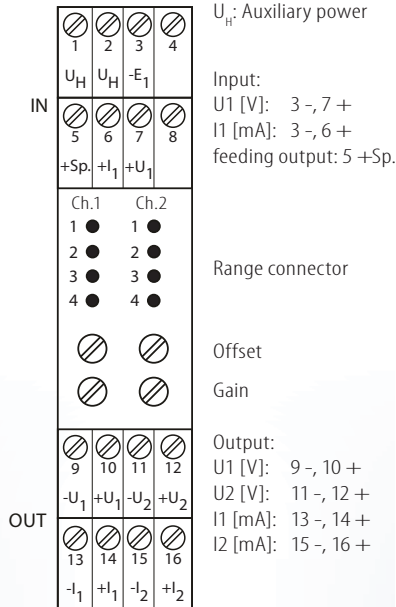
The galvanic 3-way isolation protect against faulty measurement or damage of the following instruments such as e.g. analog control devices, control rooms, guidance systems and PLC units. The integrated protective switching with suppressor diode protects the secondary circuit from voltage peaks and transient excess voltage.



# TRSV 2.00

## TRSV 2.00 UC

Connection diagram:



### Input:

I: DC current: 0(4)...20 mA input resistance approx. 50 Ω  
connection: see connection diagram

U: DC voltage: 0(2)...10 V input resistance approx. 40 kΩ  
connection: see connection diagram

transmitter feeding: approx. 22...28 V, max. 20 mA/ 22 V

### Output:

I: load-independent DC current: 0(4)...20 mA permissible load max. 600 Ω  
Output current limiting: approx. 23mA  
connection: see connection diagram

U: load-independent DC voltage: 0(2)...10 V permissible load ≥ 5 kΩ simultan.  
permissible load ≥ 1 kΩ exclusive

Gain adjustment: trimmer ± 5 %  
Offset adjustment: trimmer ± 7 %

connection: see connection diagram

### Adjustment:

Range connector	Input	Output	Remarks
2-3	0...20 mA/ 0...10 V	0...20 mA/ 0...10 V	1:1 transmission with 4...20 mA/ 2...10 V transmission
2-3	4...20 mA/ 2...10 V	4...20 mA/ 2...10 V	
1-2	0...20 mA	4...20 mA	signal transformation: basic offset at output 4 mA/ 2 V
1-2	0...10 V	2...10 V	
3-4	4...20 mA	0...20 mA	signal transformation: basic offset at input 4 mA/ 2 V
3-4	2...10 V	0...10 V	

Measuring range errors at change-over of the individual measuring ranges ≤ 0,5 %.

### Environmental conditions:

Storage temperature: -40...+70 °C  
Operating temperature: 0...55 °C  
Isolation voltage:  
2,5 kV eff. 1 sec. input-output  
4 kV eff. 1 sec. auxiliary voltage  
500 kV eff. 1 sec. channel-channel

### Auxiliary power:

230 V UC 90...253 V AC/ DC  
approx. 11 mA  
24 V UC: 20...30 V AC/ DC  
approx. 100 mA

Influence of auxiliary power: < 0,1 %

### Characteristics of transmission:

Transmission error: < 0,12 %  
Linearity error: < 0,1 %  
Temperature error: < 100 ppm/ K  
Load influence I: < 50 ppm  
of final value  
Load influence U: < 0,5 % at 1 kΩ load  
Setting time: < 200 msec.

### Directive:

EMC Directive: 2004/108/EC\*  
Low Voltage Directive: 2006/95/EC  
\*minimum deviations possible during HF-radiation influence

### Mounting details:

Housing for top hat rail  
Type of protection: IP 20 housing  
IP 10 clamps  
Rail-mounting fixed according to  
EN 50022-35 x 6,2 mm  
Width: 22,5 mm  
Weight: 160 g  
Material: Polycarbonate (PC)  
Flammability class: V0 (UL94)  
Approval: CE  
Connection: pluggable  
screw clamps  
0,2...2,5 mm<sup>2</sup>

**For safety reasons we recommend to mount the housing for top hat rail with a distance of approx. 5 mm to each other. Please check Range connector before initial operation!**

### Ordering information:

Type: 1 input - 2 outputs:  
TRSV 2.00 230 V UC  
TRSV 2.00 UC 24 V UC

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