

UT 1.00 G

FEATURES

- Input, switchable: Current 0(4)...20 mA, ± 10 mA or Voltage 0(2)...10 V, ± 10 V
- Output, simultaneous: Current 0(4)...20 mA and Voltage 0(2)...10 V
- Fine adjustment of offset and gain by trimmer
- Galvanic 3-way isolation of 4 kV



FUNCTION

Isolating amplifiers are mainly used for the galvanic isolation or conversion of analog signals. This guarantees a safe decoupling between sensor and evaluation circuit and any influence of sensor circuits among each other is absolutely impossible. The UT 1.00 G has one input for current or voltage and one output which can do current and voltage simultaneous. Fine adjustment of offset and gain is being made by trimmer.

An adjustment of the device is not necessary any longer!

The desired input range can be chosen from the table on the side, the adjustment is carried out by turn switch. The output ranges are switchable. The integrated protective switching with suppressor diode protects the secondary circuit form peaks and transient excess voltage.







UT 1.00 G



Input:					
I: DC current:	0(4).		.20 mA	input resistance approx. 50 Ω	
connection:		terminal 4 -, 5 +			
U: DC voltage:		01/ 5/ 10/ 20 V		input resistance approx. 40 k Ω/V	
connection:		termi	nal 4 -, 6 +	provide the second s	
Input ranges se	lectable by tur	n switch:			
Position			Innut		
0	020 V		020 i	mA	
1*	01	0 V	020 mA		
2	0	1 V	0201	mA	
4	10 0	10 V	420 MA		
0 9	-100	± 10 v ± 5 V			
Â	-500 0	+500 mV	-10 0 +	10 mA	
Maaguring rang		nga ayarafth	منمطنينا بماسم ممريس	$\frac{1}{2}$	
connection: ter		termi ge: 0(2)	nal 10 -, 11 + .10 V	perm. load $\geq 5 \text{ k}\Omega$ simult. operation	
o. loud independent de voltage.			perm. load \geq 1 k0 exclusive		
Gain adjustment: trin			ner ± 5 %	F	
Offset adjustment ti			trimmer + 7 %		
connection:			erminal 7 – . 8 +		
Output ranges	switchable by o	onnection of t	erminal 9 + 12 (De	ad-/live-7ero)·	
Terminal 9/ 12			Output current		
Open*			0 20 mA		
Closed	210 V		420 mA		
		·			
* Factory settin	ng: transmissior	n 1:1; with Live	-Zero transmission.		
Position	Input I	Output I	Clamp 9/ 12	Remark	
1*	020 mA	020 mA	Open*	transmission 1:1 with	
1*	420 mA	420 mA	Open*	Live-Zero transmission	
1	020 mA	420 mA	Closed	basic offset at output 4 mA	

Environmental condi	tions:	Directive:		
Storage temperature: Operating temperature: Isolation voltage: input-or	-40+70 °C 055 °C 4 kV eff. 1 sec. utput-auxiliary power	EMC Directive: 2014/30/EU* Low Voltage Directive: 2014/35/EU *minimum deviations possible during HF-radiation influence Mounting details:		
230 V AC: 24 V DC:	230 V AC 2030 V DC < 3 W	Housing for top hat rail Type of protection: Mounting rail fixed accor	IP 20 housing IP 10 clamps ding to 22-35 x 6 2 mm	
Influence of auxiliary power:< 0,1 %Characteristics of transmission: Transmission error:< 0,12 % Linearity error:Characteristics of transmission: Temperature error:< 0,15 %		EN 5002 Width: Weight: Material: Flammability class: Approval: Connection: 	22–35 x 6,2 mm 22,5 mm 190 g Noryl V0 150/ ABS ISO R75A 147°C/ 90°C CE screw clamps $\leq 2 \times 2,5 \text{ mm}^2$ recommend to r top hat rail with a mm to each other. osition before initial	

Ordering information:

Please specify special signals in clear text:				
UT 1.04	special input			
UT 1.05	special output			

Type: UT 1.00 G UT 1.00 GDC

230 V AC 24 V DC

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