DGW 4.00 G
DGW 6.00 G

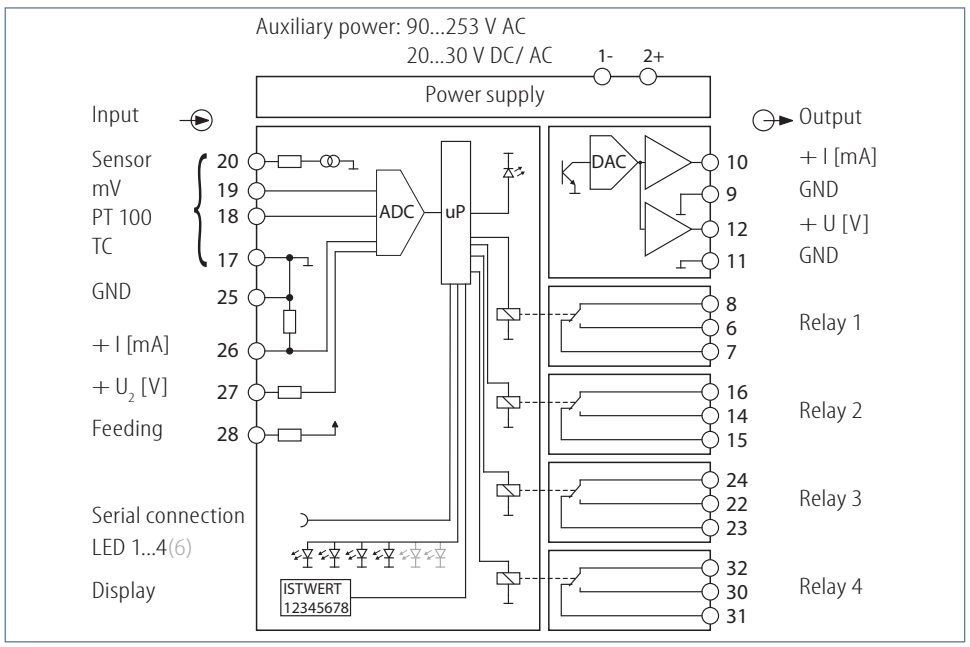
FEATURES

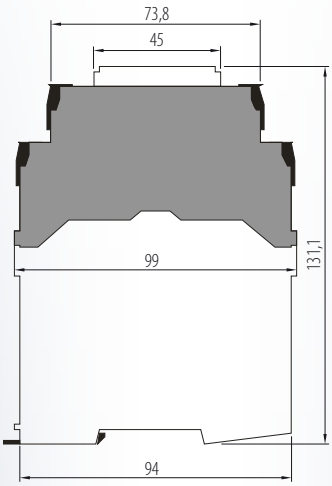
- *Inputs:*
  Current 0(4)…20 mA or optional
  Voltage 0(2)…10 V/ 60 mV/ 100 V
  PT 100, PT 500, thermocouples
- *Outputs simultaneous*
  0(4)...20 mA and 0(2)...10 V
- *Integrated transmitter feeding*
- *4 or 6 relays*
  with change-over, closing contacts
- *On-site indication and operation as well as parameterization in connection with KALIB-Software*
- *Galvanic 3-way isolation of each channel*

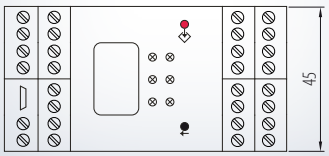
FUNCTION

Limit switches are used for the control of limiting values of different standard inputs.
The switching points and parameterization of the DGW 4.00 G and DGW 6.00 G can be adjusted by push-button on front side and displayed on a 2x 8-digit LCD-display. Alternatively the parameterization can be made with the USB2 adapter in connection with the KALIB-Software.

The DGW 4.00 G has 4 relays = 4 changer, the DGW 6.00 G has 6 relays = 4 changer and 2 closing contacts.
They are equipped with limit values, hysteresis, ON/ OFF-delay, alarm, inverse function and sensor control.
A ON- and OFF-delay for each relay and locking contact function can be defined.
The conditions of the relay are signalled by LED.
A signal conversion as 2 analog outputs is possible as well. Those are free scalable.



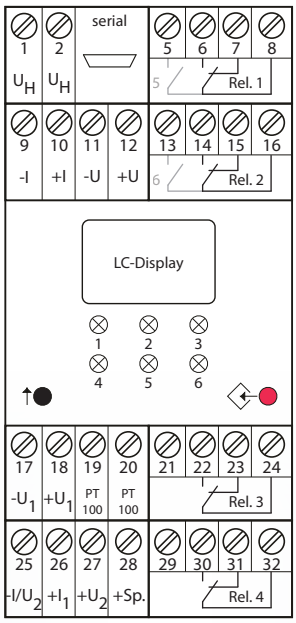


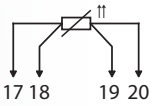


Schuhmann Messtechnik

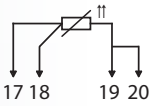
DGW 4.00 G
DGW 6.00 G

Connection diagram:

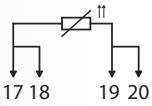




4-wire



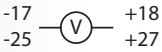
3-wire



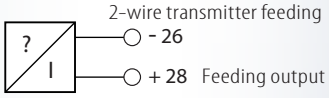
2-wire

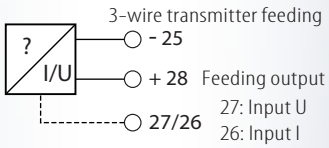
Thermocouple

Current input



Voltage input





Schuhmann GmbH & Co. KG
Römerstraße 2
D-74363 Güglingen
Tel. + 49 71 35 50 56
E-mail: info@schuhmann-messtechnik.de
www.schuhmann-messtechnik.de

Input:

I: DC current:	0(4)...20 mA	input resistance approx. 10 Ω
connection:	terminal 25 -, 26 +	
U_1:DC voltage:	0...60 mV 0...1 V	input resistance approx. 250 kΩ
connection:	terminal 17 -, 18 +	
U_2:DC voltage:	0...5 V 0(2)...10 V 0...100 V	input resistance approx. 1 MΩ
connection:	terminal 25 -, 27 +	
Transmitter feeding:	max. 22 V/ max. 26 mA	
connection:	terminal 25 - , 28 +	
Temperature:		
PT 100, PT 500:	measuring range -120 °C...+850 °C	
connection:	terminal 17, 18, 19, 20	
Thermocouples:	type B, C, D, E, J, K, L, M, R, S, T, U, meas. range acc. to EN60584-1	
connection:	terminal 17, 18	

Output:

I: load-independent DC current:	0(4)...20 mA	permissible load max. 580 Ω
connection:	terminal 9 -, 10 +	
U: load-independent DC voltage:	0(2)...10 V	permissible load ≥ 2 kΩ
connection:	terminal 11 -, 12 +	
Contact:	DGW4.00: 4 changer	DGW6.00: 4 changer + 2 closer
max. switching current/ voltage:	8 A (ohmic load) / 250 V AC	
mech./ contact life cycle:	30 x 10^6 cycles/ 10^5 cycles	

Adjustment:

The parameterization will be carried out for commissioning via the front-panel push-buttons or the KALIB-Software (see manual). For this you need a PC as well as the interface adapter **USB2**/ **USB-Simulator** with **KALIB-Software**.

Display:

LED relay 1...6:	red, active	relay tightened
LC-Display:	2 x 8 digits	alpha-numeric display for actual value and parameterization

Environmental conditions:

Storage temperature: -40...+70 °C
Operating temperature: 0...55 °C
Isolation voltage:
1 kV eff. 1 sec. input-output
4 kV eff. 1 sec. auxiliary voltage
4 kV eff. 1 sec. outputs

Auxiliary power:

230 V AC:	90...253 V AC < 4 W
24 V UC:	20...30 V DC/ AC < 4 W
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:	< 0,2 % at 1 kΩ load
Setting time:	< 500 msec.

Directive:

EMC Directive: 2014/30/EU*
Low Voltage Directive: 2014/35/EU

*minimum deviations possible during HF-radiation influence

Mounting details:

Housing for top hat rail

Type of protection:	IP 40 housing IP 10 clamps
Mounting rail fixed according to	EN 50022-35 x 6,2 mm
Width:	45 mm
Weight:	330 g
Material:	Polycarbonate (PC)
Flammability class:	V0 (UL94)
Approval:	CE
Connection:	pluggable screw clamps 0,2...2,5 mm^2

Please check parameter before initial operation!

Ordering information:

Accessories: USB2/ USB-Simulator with KALIB-Software, manual

Type:		
	DGW 4.00 G	230 V UC
	DGW 4.00 GUC	24 V UC
	DGW 6.00 G	230 V UC
	DGW 6.00 GUC	24 V UC

14.10.2020