

Product Information

Controller

Set Point Adjuster SG9648



- Output 0/4..20 mA, 0/2..10 V DC
- Set point adjustment with front buttons or external signals
- Indicating range and decimal point programmable
- Set point output isolated

Characteristics

The Set point adjuster SG9648 has been designed for generating adjustable set point value signals 0/4..20mA and 0/2..10V DC. Any display value can be assigned to the respective output signal. The operator can work with real values. The adjustment speed is programmable.

Technical data

Power supply

Supply voltage : 230 V AC $\pm 10\%$; 115 V AC $\pm 10\%$;
24 V AC $\pm 10\%$ or 24 V DC $\pm 15\%$

Power consumption : 5 VA

Operating

temperature : -20..+55 °C

CE-conformity : EN 61326-1:2013; EN 60664-1:2007

Input

Control : 0/24 V DC Ri 6.3 k Ω < 4 V low,
>8.5 V high, hysteresis >2.5 V,
max. 35 VDC

Transmitter supply : 24 V DC (pnp), Ri approx. 150 Ω ,
max.50 mA

Display : LED red, 14.2 mm

Indicating range : $\pm 9999(0)$ Digit

Additional display : LED 2-digit red, 7 mm
(Parameter - and status indicator)

Output

Relay SPDT : < 250 V AC < 250 VA < 2 A,

< 300 V DC < 50 W < 2 A

Transistor : max. 35V AC/DC, max. 100mA,
short-circuit-proof

Analog output : 0/4..20 mA burden $\leq 500 \Omega$; 0/2..10 V
burden > 500 Ω , isolated
output changes burden dependent

- Accuracy : 0.1 %; TK 0.01 %/K

Case : panel case DIN 96x48 mm,
material PA6-GF; UL94V-0

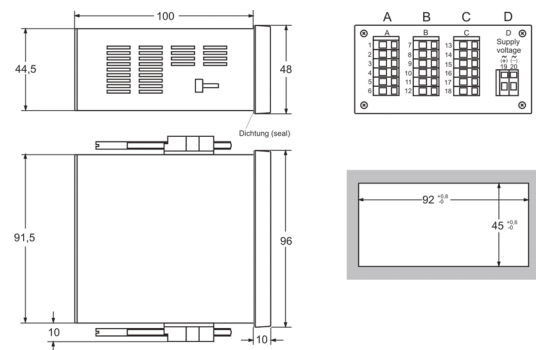
Dimensions : front 96x48 mm, mounting depth 100 mm,

Weight : max. 390 g

Electrical connection: clamp terminals, 0.08..1.5 mm²
AWG28..AWG14

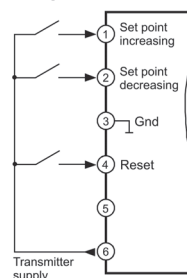
Protection class : front IP65, terminals IP20, acc. to BGV A3

Dimensions

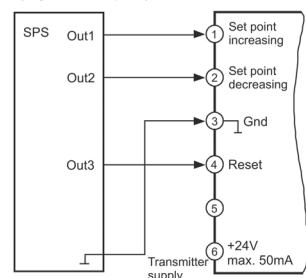


Connection diagram

Actuation via
voltage free contacts



Actuation via ext. logic signals
(e.g. PLC-outputs)



Ordering code

SG9648 - 1. - 2. - 3. - 4. - 5. - 6. - 7.

1. Terminal strip A		
0	not installed,	set point adjustment via front buttons, adjustment speed dynamically, (Power-on)-reset to the last stored value or programmed reset value
1	as 0, but additional 2 control inputs for ext. adjustment, ext. reset to a programmed reset value	adjustment speed dynamically
2. Terminals strip B		
00	not installed	
2R	2 relay outputs	
2T	2 transistor outputs	
3. Terminal strip C (standard)		
AO	analog output	0/4..20 mA, 0/2..10 V
4. Terminal strip D supply voltage		
0	230 V AC	$\pm 10\%$ 50-60Hz
1	115 V AC	$\pm 10\%$ 50-60Hz
4	24 V AC	$\pm 10\%$ 50-60Hz
5	24 V DC	$\pm 15\%$
5. Options		
00	without option	
6. Unit appears on the front panel		
7. Additional text above the display (3x90 mm HxW)		