

# Standard Signal Panelmeter S9648



- Measuring input for standard signals 0/4..20 mA or 0..10 V and Potentiometer
- Integrated transmitter supply
- LED-Display 14.2 mm red, indicating range  $\pm 9999(0)$  Digit
- Max. 4 alarm outputs, relay SPDT or transistor

## Characteristics

The Standard Signal Panelmeter S9648 has been designed for measuring industry standard signals 0/4..20 mA or 0..10 V DC. The device offers an integrated transmitter supply for direct connection of 2- and 3-wire transmitters for e.g. pressure or temperature. Indicating range and decimal point are free programmable in the range  $\pm 9999(0)$  digit.

## 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 : max. 3.5 VA, with analog output 5 VA  
Operating temp. : -10..+55 °C  
CE-conformity : EN 61326-1:2013; EN 60664-1:2007

### Input

Current : 0/4..20 mA  $R_i = 10 \Omega$   
Voltage : 0..10 V  $R_i = >100 \text{ k}\Omega$   
Potentiometer : 0..1 k $\Omega$  / 100 k $\Omega$   
Accuracy : < 0.1 %  $\pm 2$  digit  
Transmitter supply :  $U_0$  approx. 24 V,  $R_i$  ca. 150  $\Omega$ , max. 50 mA  
(max. 25 mA with 4 relays)

### Display

LED red, 14.2 mm  
Indicating range :  $\pm 9999(0)$  digit with leading zero suppression  
Parameter display : LED 2-digit red, 7 mm  
(parameter and output indicator)

### Output

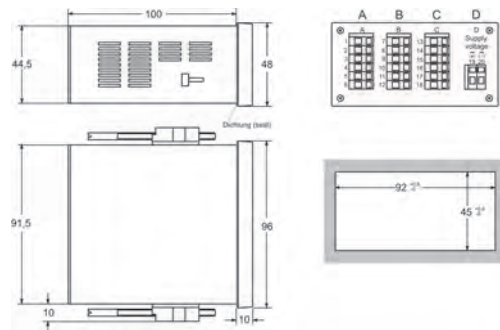
Relay : SPDT < 250 V AC < 250 VA < 2 A,  
< 300 V DC < 50 W < 2 A  
Transistor : max. 35 V AC / DC max. 100 mA,  
with short circuit protection  
Analog : 0/4..20 mA burden  $\leq 500 \Omega$ ; 0/2..10 V  
burden > 500  $\Omega$ , isolated  
automatically output changing

- Accuracy : 0.1 %; TK 0.01 %/K

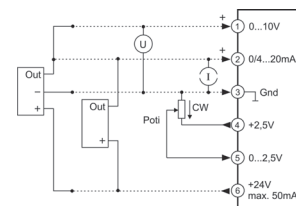
### Case

panel case DIN 96x48 mm,  
material PA6-GF; UL94V-0  
Dimensions : front 96x48 mm, mounting depth 100,  
Weight : max. 390 g  
Connection : clamp terminals, 0.08..1.5 mm<sup>2</sup>  
AWG28..AWG14  
Protection class : front IP65, terminals IP20 acc. to BGV A3

## Dimensions



## Connection diagram



## Ordering code

S9648 -  1. -  2. -  3. -  4. -  5. -  6. -  7.

1. Terminal strip A	
1	input standard signals, 0/4..20 mA, 0..10 V DC and potentiometer, integrated transmitter supply 24 V max. 50 mA*
2. Terminal strip B	
00	not installed
2R	2 relay outputs
2T	2 electronic outputs
S1**	2. input standard signals, integrated transmitter supply 24 V max. 50 mA*
3. Terminal strip C	
00	not installed
2R	2 relay outputs
2T	2 electronic outputs
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
01	min-and max-peak hold
02	difference-, average-, larger-, smaller value
08	analog output separate programmable
6. Unit (appears in the unit field)	
7. Additional text placed above the display (3x90 mm HxW)	

Attention!

\* Terminal strip A+B together max. 50 mA

\*\* no isolation to terminal strip A, only in connection with option 02