

**Product Information**

**Digital Voltmeter V9648**



- Measuring and indicating range separate programmable
- LED display 14.2 mm red, indicating range  $\pm 9999(0)$  digit
- Max. 4 alarm outputs, relay SPDT or transistor

**Characteristics**

The Digital Voltmeter V9648 has been designed to measure DC and AC (TRMS) voltage signals. Three basic models all are selectable and makes the possibility to measure voltages from 0..30.00 mV up to 0..999.9 V. Within a model the measurement range is free programmable. Measuring of bipolar voltages is also possible with basic models 1 and 2. For example -5..+5 V; or -10..+10 V in basic model 2. Additional a free programmable display range within  $\pm 9999(0)$  digit can be assigned to a programmed voltage measurement range.

**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**  
Input resistance : model 1 = 130 k $\Omega$ , model 2 = 1.3 M $\Omega$ ,  
model 3 = 2.6 M $\Omega$

**Overload** : model 1 and 2 = 300 V DC/AC<sub>TRMS</sub>,  
model 3 = 1200 V DC/AC<sub>TRMS</sub>

**Accuracy** : < 0.1 %  $\pm 2$  digit (DC); 0.5 %  $\pm 2$  digit (AC)  
crest-factor < 3  $\Rightarrow$  max. 2 % error,  
crest-factor < 5  $\Rightarrow$  max. 5 % error

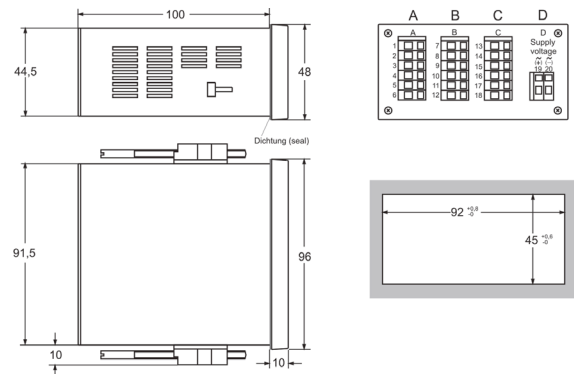
**Display**  
LED red, 14.2 mm  
Indicating range :  $\pm 9999(0)$  digit  
Additional display : LED 2-digit red, 7 mm  
(parameter - and output indicator)

**Output**  
Relay : SPDT < 250 V AC < 250 VA < 2 A,  
< 300 V DC < 50 W < 2 A  
Transistor : max. 35 V AC/DC, 100 mA,  
with short circuit protection  
Analog output : 0/4..20 mA burden  $\leq$  500  $\Omega$ ; 0/2..10 V,  
burden > 500  $\Omega$ , with isolation  
-Accuracy : 0.1 %; TK 0.01 %/K

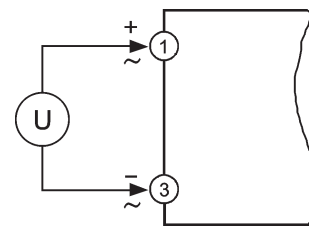
**Case** : panel case DIN 96x48 mm,  
material PA6-GF; UL94V-0

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

V9648 - 1. - 2. - 3. - 4. - 5. - 6. - 7.

<b>1. Terminal strip A</b>	
Measuring range programmable:	
1	0..4000 mV DC/AC <sub>TRMS</sub>
2	0..250.0 V* DC/AC <sub>TRMS</sub> * includes e.g. $\pm 5$ V, $\pm 10$ V
3	0..999.9 V DC/AC <sub>TRMS</sub>
<b>2. Terminal strip B</b>	
00	not installed
2R	2 relay outputs
<b>3. Terminal strip C</b>	
00	not installed
2R	2 relay outputs
2T	2 electronic outputs
AO	analog output 0/4..20 mA, 0/2..10 V DC
<b>4. Terminal strip D; supply voltage</b>	
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 $\pm 15\%$
<b>5. Options</b>	
00	without option
01	min- and max-peak hold
07	display brightness programmable
<b>6. Unit appears in the unit field</b>	
<b>7. Additional text above the display (3x90 mm HxW)</b>	

Connection diagram for terminal strips B-D see page Fehler:  
Referenz nicht gefunden