

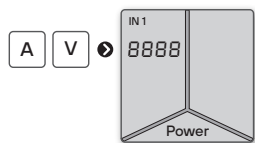


OM 45DC

- 4.5-digit projection
- Range $\pm 199.99 \text{ mV}$
 $\pm 1.9999 \text{ V}$; $\pm 19.999 \text{ V}$; $\pm 199.99 \text{ V}$
 $\pm 199.99 \mu\text{A}$; ± 1.9999 ; ± 19.999 ; $\pm 199.99 \text{ mA}$
- Size of DIN 96 x 24 mm
- Power supply 12...24 VDC; 230 VAC

Type OM 45DC is an inexpensive, low 4.5-digit direct current panel VA-meter. Thanks to its dimensions the instrument is suitable for installation into mosaic panels.

DC V-A METER



OPERATION

The instrument is designed for simple measurements without further control. Placement of the decimal point is selectable by a shorting link under the front panel.

CALIBRATION

Possible corrections of display projection for both limit values of input signal may be performed by trimmers situated under the front panel ($\pm 10\%$).

TECHNICAL DATA

INPUT				PROJECTION		POWER SUPPLY			
No. of inputs		1 The range is fixed		Display	±19999, single color 7-segment LED		Range	10...30 V AC/DC, ±10%, PF ≥ 0.4, I _{isp} < 40 A / 1 ms, isolated 100...250 V AC/DC, ±10%, PF ≥ 0.4, I _{isp} < 40 A / 1 ms, isolated <i>Protection by fuse inside the device</i>	
DC	Range	±199.99 µA	< 500 mV	Input 1	Digit height	14 mm		Consumption	< 23 W / 25 VA
		±1.9999 mA	< 500 mV	Input 1	Display color	red or green			
		±19.999 mA	< 500 mV	Input 1	Decimal point	adjustable - by shorting link			
		±199.99 mA	< 200 mV	Input 1	Brightness	adjustable - by trimmers under the front panel			
		±1.9999 V	1 MΩ	Input 1					
		±19.999 V	1 MΩ	Input 1					
±199.99 V	1 MΩ	Input 2							
				INSTRUMENT SPECIFICATION		MECHANIC PROPERTIES			
TC		50 ppm/°C		Material		Noryl GFN2 SEI, incombustible UL 94 V-I, black			
Accuracy		±0.15 % of FS		Dimensions		96 x 24 x 100 mm (w x h x d)			
Rate		12...10 measurement/s		Panel cutout		90.5 x 21.5 mm (w x h)			
Overload		10x (t < 30 ms), 2x <i>not valid for 200 V range</i>							
Calibration		at 25°C and 40 % rh.							
				OPERATING CONDITIONS					
Connection		connector terminal blocks, section < 2.5 mm²		Stabilization period		within 5 minutes after switch-on			
Working temperat.		0°...60°C		Storage temperat.		-20°...85°C			
Working humidity		< 95 % r.v., non condensing		Protection		IP40, front panel only			
Construction		safety class I		EI. safety		EN 61010-1, A2			
Dielectric strength		4 kVAC per 1 min test between supply and input		Insulation resist.*		for pollution degree II, measuring cat. III power supply, input > 600 V (PI), 300 (DI) input, output, excitation > 300 V (PI), 150 V (DI)			
EMC		EN 61326-1:2021, Industrial area		RoHS		EN IEC 63000:2018			
						* PI - Primary insulation, DI - Double insulation			