

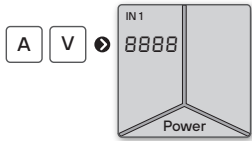


OM 45DC

- 4.5-digit projection
- Range ± 199.99 mV
 $\pm 1,9999$ V; ± 19.999 V; ± 199.99 V
 ± 199.99 μ A; ± 1.9999 ; ± 19.999 ; ± 199.99 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		
No. of inputs	1 The range is fixed	
DC Range	±199.99 µA	< 500 mV
	±1.9999 mA	< 500 mV
	±19.999 mA	< 500 mV
	±199.99 mA	< 200 mV
	±1.9999 V	1 MΩ
	±19.999 V	1 MΩ
	±199.99 V	1 MΩ
		Input 1
		Input 1
		Input 1
		Input 1
		Input 1
		Input 2

PROJECTION	
Display	±19999, single color 7-segment LED
Digit height	14 mm
Display color	red or green
Decimal point	adjustable - by shorting link
Brightness	adjustable - by trimmers under the front panel

INSTRUMENT SPECIFICATION	
TC	50 ppm/°C
Accuracy	±0.15 % of FS + 1 digit
Rate	12...10 measurement/s
Overload	10x (t < 30 ms), 2x <i>not valid for 200 V range</i>
Calibration	at 25°C and 40 % rh.

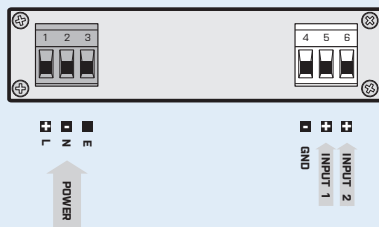
POWER SUPPLY	
Range	10...30 V AC/DC, ±10 %, PF ≥ 0.4, I _{SP} < 40 A / 1 ms, isolated 100...250 V AC/DC, ±10 %, PF ≥ 0.4, I _{SP} < 40 A / 1 ms, isolated <i>Protection by fuse inside the device</i>
Consumption	< 2.3 W / 2.5 VA

MECHANIC PROPERTIES	
Material	Noryl GFN2 SE1, incombustible UL 94 V-1, black
Dimensions	96 x 24 x 100 mm (w x h x d)
Panel cutout	90.5 x 21.5 mm (w x h)

OPERATING CONDITIONS	
Connection	connector terminal blocks, section < 2.5 mm ²
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
El. 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, Industrial area

* PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

OM 45DC		-		□ □ □	
Power supply	230 VAC/50 Hz	1			
	12...24 VDC, uninsulated	2			
Measuring range	±1.9999 V		B		
	±19.999 V		C		
	±199.99 V		D		
	±199.99 µA		J		
	±1.9999 mA		K		
	±19.999 mA		L		
Display color	red			1	
	green			2	

Basic configuration of the instrument is indicated in bold.