



OM 45DC

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

- 4,5-digit projection
- Range: $\pm 199,99$ mV
 $\pm 1,9999$ V; $\pm 19,999$ V; $\pm 199,99$ V
 $\pm 199,99$ μ A; $\pm 1,9999$; $\pm 19,999$; $\pm 199,99$ mA
- Size of DIN 96 x 24 mm
- Power supply 12...24 VDC; 230 VAC

OM 45DC
DC VOLTMETER AND AMMETER

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

DC	Range	Resolution	Input
	fixed - by order		
	±199,99 µA	< 500 mV	Input 1
	±1,9999 mA	< 500 mV	Input 1
	±19,999 mA	< 500 mV	Input 1
	±199,99 mA	< 200 mV	Input 1
	±1,9999 V	1 MΩ	Input 1
	±19,999 V	1 MΩ	Input 1
	±199,99 V	1 MΩ	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 ACCURACY

TC: 100 ppm/°C
 Accuracy: ±0,15% of range + 1 digit
 Rate: 1,2/2,5/5/10 measurement/s
 Overload capacity: 2x; 10x (t < 30 ms) - not for 200 V
 Calibration: at 25°C and 40 % r.h.

POWER SUPPLY

Range: 230 VAC/50 Hz, ±10 %, 2,5 VA
 12...24 VDC/max. 2,3 W, uninsulated
 Power supply is protected by a fuse inside the instrument.

MECHANIC PROPERTIES

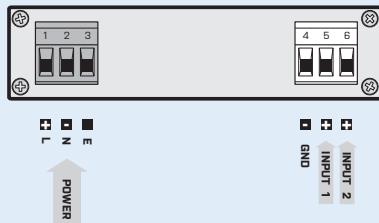
Material: Noryl GFN2 SE1, incombustible UL 94 V-1
 Dimensions: 96 x 24 x 100 mm (w x h x d)
 Panel cutout: 90,5 x 21,5 mm (w x h)

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 2,5 mm²
 Stabilization period: within 5 minutes after switch-on
 Working temperature: 0°...60°C
 Storage temperature: -10°...85°C
 Protection: IP40 (front panel only)
 EL safety: EN 61010-1, A2
 Dielectric strength: 2,5 kVAC per 1 min test between supply and input
 Insulation resistance: for pollution degree II, measuring cat. III
 AC power supply > 600 V (PI), 300 V (DI)
 DC power supply, input > 300 V (PI), 150 V (DI)
 EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

OM 45DC		-		
Power supply	230 VAC/50 Hz 12...24 VDC, uninsulated	1		
		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	
	±199,99 mA on request		M Z	
Display color	red			1
	green			2

Basic configuration of the instrument is indicated in bold.