

# DC VOLTMETERS & AMMETERS

## OM 36DC



- **3 1/2 digit projection**
- **$\pm 199,99$  mV ...  $\pm 300$  V**
- **$\pm 199,99$   $\mu$ A ...  $\pm 5,00$  A**
- **Size of DIN 96 x 48 mm**
- **Power supply 230 VAC**

### Extension

Excitation • Analogue output • Power supply: 24 VAC, 110 VAC, 8...32 VDC

### Description

The OM 36DC model is a 3 1/2 digit panel direct-current voltmeter/ammeter with great accuracy and stability.

### Operation

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

### Calibration

Contingent corrections of display projection may be performed by a trimmer under the front panel (approx 10 %).

### Options

**Excitation** is suitable for feeding of sensors and transducers. It has a galvanic isolation with continuously adjustable value in the range of 2...24 VDC.

**Analogue outputs** will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer several types of current or voltage non-isolated outputs. The analogue output value corresponds with the input signal.

## Technical data

MEASURING RANGE		Impedance/Max. drop	
Voltage:	$\pm 199,9$ mV	1 MOhm	Input A
	$\pm 1,999$ V	1 MOhm	Input A
	$\pm 19,99$ V	1 MOhm	Input A
	$\pm 199,9$ V	1 MOhm	Input B
	$\pm 300$ V	2 MOhm	Input B
Current:	$\pm 199,9$ $\mu$ A	< 260 mV	Input A
	$\pm 1,999$ mA	< 260 mV	Input A
	$\pm 19,99$ mA	< 260 mV	Input A
	$\pm 199,9$ mA	< 200 mV	Input A
	$\pm 1,999$ A	< 200 mV	Input A
	$\pm 5,00$ A	< 50 mV	Input A

### PROJECTION

Display:	$\pm 1999$ , red or green 7-segment LED, digit height 14 mm
Decimal point:	adjustable - by shorting link under the front panel
Brightness:	adjustable - by potentiometer under the front panel

### INSTRUMENT ACCURACY

Tempco:	100 ppm/ $^{\circ}$ C
Accuracy:	$\pm 0,1$ % of range
Rate:	1,2/2,5/5/10 measurements/s
Overload capacity:	10x ( $t < 100$ ms) - does not apply for 300 V and 5 A, 2x (long-term)
Calibration:	at 25 $^{\circ}$ C and 40 % r.h.

### ANALOGUE OUTPUTS

Type:	non-isolated, analogue output corresponds with the input signal
Non-linearity:	0,3 % of range
Tempco:	100 ppm/ $^{\circ}$ C
Rate:	response to change of value < 100 ms
Voltage:	0...2 V, 0...5 V, 0...10 V
Current:	0/4...20 mA (compensation of conduct up to 600 Ohm)

### EXCITATION

Adjustable:	2...24 VDC/50 mA, isolated
-------------	----------------------------

### POWER SUPPLY

24/110/230 VAC, 50/60 Hz
12...24 VDC/150 mA (without excitation and analogue output)
8...32 VDC/max. 300 mA, (24 VDC/max. 150 mA), isolated

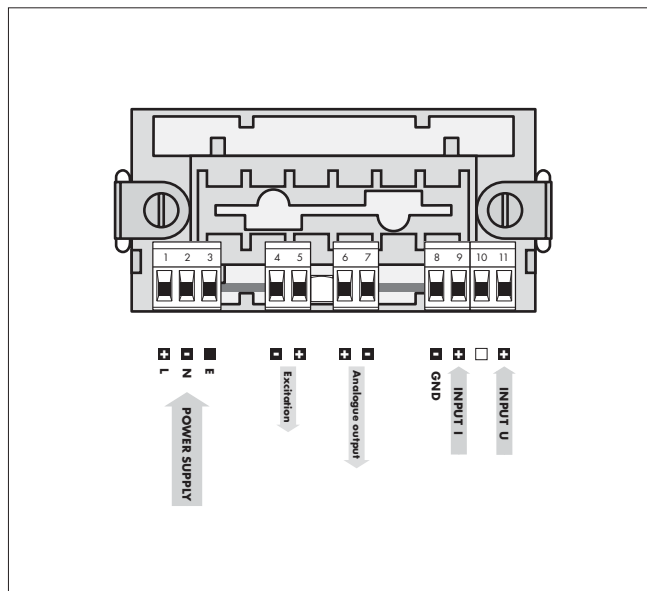
### MECHANIC PROPERTIES

Material:	Noryl GFN2 SE1, incombustible UL 94 V-1
Dimensions:	96 x 48 x 110 mm
Panel cut-out:	92 x 45 mm

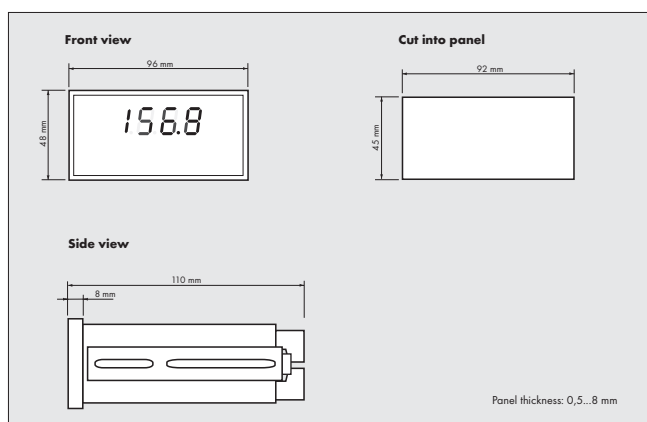
### OPERATING CONDITIONS

Connection:	connector terminal board, conductor section up to 2,5 mm <sup>2</sup>
Stabilization period:	within 15 minutes after switch-on
Working temperature:	0 $^{\circ}$ ...60 $^{\circ}$ C
Storage temperature:	-10 $^{\circ}$ ...85 $^{\circ}$ C
Covering:	IP42, upon request IP64 (front panel only)
Construction:	safety class I
Electrical safety:	EN 61010-1, A2
Overvoltage category:	for pollution degree II
	III. - instrument power supply (300 V)
	II. - input, output, exc. voltage (300 V)
EMC:	EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

## Connection



## Dimensions



## Order code

