OM 36AC

- **3 1/2 digit projection**
- **0 ... 300 V**
- **0 ... 5,00 A**
- **Size of DIN 96 x 48 mm**
- **Power supply 230 VAC**

Extension
Excitation • Analogue output • Power supply: 24 VAC, 110 VAC, 9...32 VDC

Description

The OM 36AC model is a 3 1/2 digit panel alternating 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 transmitters. 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:	0...199,9 mV	1 MOhm	Input I
	0...1,999 V	1 MOhm	Input I
	0...19,99 V	1 MOhm	Input I
	0...199,9 V	1 MOhm	Input U
	0...300 V	2 MOhm	Input U
Current:	0...1,999 mA	< 260 mV	Input I
	0...19,99 mA	< 260 mV	Input I
	0...199,9 mA	< 200 mV	Input I
	0...1,999 A	< 200 mV	Input I
	0...5,00 A	< 50 mV	Input I
Frequency range:	40...2 500 Hz		

PROJECTION

Display:	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/°C
Accuracy:	±0,3 % of range (< 100 Hz, crest factor 1-2)
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°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/°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)
9...32 VDC/max. 300 mA, (24 VDC/max. 150 mA), isolated

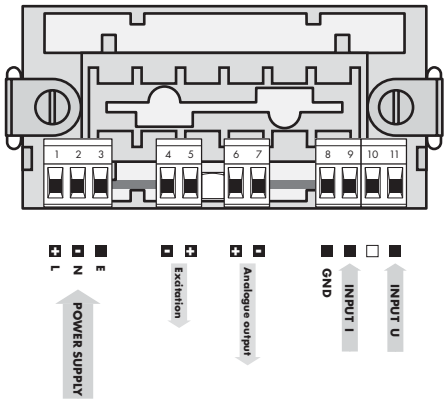
MECHANIC PROPERTIES

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

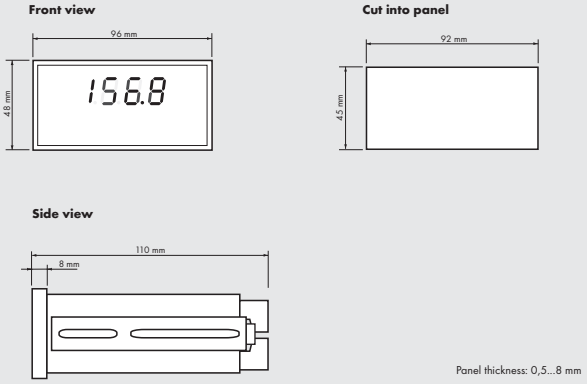
OPERATING CONDITIONS

Connection:	connector terminal board, conductor section up to 2,5 mm^2
Stabilization period:	within 15 minutes after switch-on
Working temperature:	0°...60°C
Storage temperature:	-10°...85°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, excitation (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

OM 36AC - xxxxx

Power supply
0: 24 VAC/50 Hz
1: 230 VAC/50 Hz
2: 12...24 VDC
3: 110 VAC/50 Hz
4: 8...32 VDC, isolated

Input
A: 0...199,9 mV
B: 0...1,999 V
C: 0...19,99 V
D: 0...199,9 V
E: 0...300,0 V
K: 0...1,999 mA
L: 0...19,99 mA
M: 0...199,9 mA
N: 0...1,999 A
P: 0...5,00 A

Display color
1: red
2: green

Excitation
0: no
1: yes

Analogue output
0: no
1: 0...2 V
2: 0...5 V
3: 0...10 V
4: 0...20 mA
5: 4...20 mA

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