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# **OM 47AC**



- 4 1/2 digit projection
- 199,99 mV ... 300,0 V
- 199,99 mA ... 5,000 A
- Size of DIN 96 x 48 mm
- Power supply 230 VAC

# **Options**

Dual comparator • Excitation • Analogue output • Power supply 24 VAC, 110 VAC, 10...30 VDC

#### Description

## Operation

In its basic version the instrument is designed for simple measurement without further control. In version with dual comparator its setting is performed by two control keys and potentiometers.

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**

**Dual comparator** serves to monitor two limit values with relay output. The limits have adjustable hysteresis. Reaching the preset limits (top over/bottom under) is signalled by LED and at the same time by the switch-on of the relevant relay.

**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 and voltage outputs. The analogue output value corresponds with the input signal.



## Technical data

MEASURING RANGE		Impedance/Max. drop	
Voltage:	0199,99 mV	> 1 M0hm	Input A
	01,9999 V	1 MOhm	Input A
	019,999 V	1 MOhm	Input A
	0199,99 V	1 MOhm	Input B
	0300,0 V	1 MOhm	Input B
Current:	0199,99 mA	< 200 mV	Input A
	01,9999 A	< 200 mV	Input A
	05,000 A	< 50 mV	Input A

Frequency range: 40...2 500 Hz

**PROJECTION** 

19999, red or green 7-segment LED, digit height 14 mm adjustable - by shorting link

Display: Decimal point:

adjustable - by potentiometer under the front panel Brightness:

**INSTRUMENT ACCURACY** 

Tempco:

100 ppm/°C ±0,5 % of range (< 100 Hz, crest factor 1-2) Accuracy:

1,2/2,5/5/10 measurements/s Rate:

Overload capacity: 10x (t < 30 ms) - does not apply for 300 V and 5 A, 2x (long-term)

Calibration: at 25°C and 40 % r.h.

COMPARATOR

Type: analogue, adjustable by potentiometers under the front panel

Limit 1 and 2

Hysteresis: < 2 % of range, adjustable by potentiometers inside the instrument Outputs:

2 relays with switch-on contact (250 VAC/30 VDC, 3 A)

**ANALOGUE OUTPUTS** 

(non)isolated, analogue output corresponds with the input signal Type:

Non-linearity: Tempco: 100 ppm/°C

Rate: response to change of value < 40 ms Voltage: 0...2 V, 0...5 V, 0...10 V

Current: 0/4...20 mA (compensation of conduct up to 600 0hm)

**POWER SUPPLY** 

24/110/230 VAC, 50/60 Hz, ±10 %, 5 VA 10...30 VDC/max. 300 mA, (24 VDC/110 mA), isolated

**MECHANIC PROPERTIES** 

Material: Noryl GFN2 SE1, incombustible UL 94 V-I

96 x 48 x 110 mm Dimensions: 92 x 45 mm Panel cut:

**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°...60°C Storage temperature: -10°...85°C

IP40, upon request IP64 (front panel only) Covering:

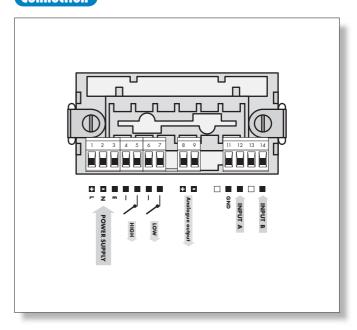
Construction: safety class I Electrical safety: EN 61010-1, A2 Overvoltage category: for pollution degree II

III. - instrument power supply, relay outputs (300 V)

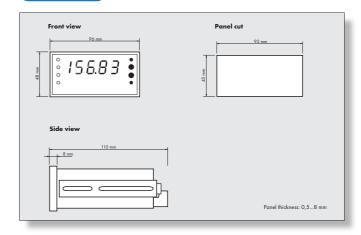
II. - input, output (300 V)

EMC: EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

## **Connection**



## **Dimensions**



# Order code

