

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 • Analog output • Power supply 24 VAC, 110 VAC, 10...30 VDC

Description

The OM 47AC model is a 4 $^{1}\!\!/_{2}$ digit panel AC voltmeter/ammeter with great accuracy and stability.

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 from the front of the instrument. 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.

Analog 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 analog output value corresponds with the input signal.



Technical data

| MEASURING RANGE | | Impedance/Max. drop | |
|-----------------|------------|---------------------|---------|
| Voltage: | 0199,99 mV | > 1 M0hm | Input 1 |
| - | 01,9999 V | 1 MOhm | Input 1 |
| | 019,999 V | 1 MOhm | Input 1 |
| | 0199,99 V | 1 MOhm | Input 2 |
| | 0300,0 V | 1 MOhm | Input 2 |
| Current: | 0199,99 mA | < 200 mV | Input 1 |
| | 01,9999 A | < 200 mV | Input 1 |
| | 05,000 A | < 50 mV | Input 1 |

40...2 500 Hz Frequency range:

PROJECTION

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

Brightness: adjustable - by potentiometer under the front panel

INSTRUMENT ACCURACY

Tempco:

100 ppm/°C ± 0.5 % of range (< 100 Hz, crest factor 1-2) + 1 digit Accuracy:

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

10x (t < 30 ms) - does not apply for 300 V and 5 A, 2x (long-term) at 25°C and 40 % r.h. Overload capacity:

Calibration:

COMPARATOR

Type: analog, adjustable by potentiometers under the front panel

Limit 1 and 2

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

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

ANALOG OUTPUTS

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

Non-linearity: Tempco: 100 ppm/°C

Rate: response to change of value < 40 ms

Voltage: 0...2 V, 0...5 V, 0...10 V

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

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 mm²

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:

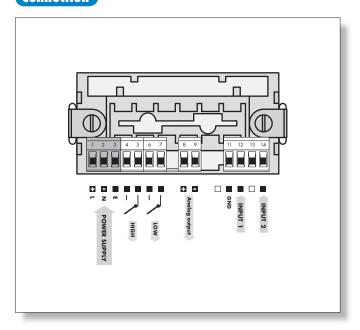
safety class I Construction: Electrical safety: EN 61010-1, A2 Overvoltage category: for pollution degree II

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

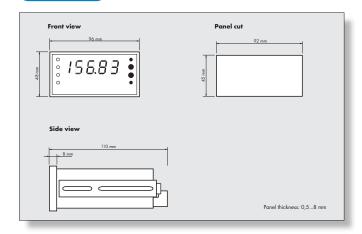
II. - input, output (300 V)

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

Connection



Dimensions



Order code

