



OM 47

The OM 47 model series are 4½-digit panel instruments with good accuracy and stability.

- 4,5-DIGIT PROJECTION
- SIZE OF DIN 96 x 48 MM
- POWER SUPPLY 230 VAC
- Option
Excitation • Power supply 24/110 VAC, 10...30 VDC, 80...250 V AC/DC

OM 47DC

DC VOLTMETER AND AMMETER

OM 47AC

AC VOLTMETER AND AMMETER

OM 47PM

PROCESS MONITOR

OM 47OHM

OHMMETER

OM 47RTD

THERMOMETER FOR PT/NI

OPERATION

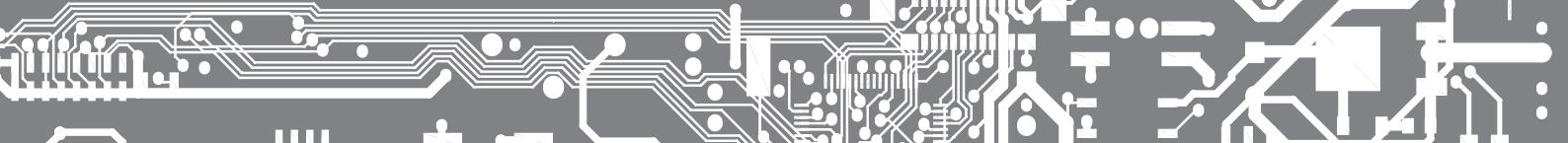
The instrument is designed for simple measurement without further control.
Placement of the decimal point is selectable by a shorting link under the front panel.

CALIBRATION

Contingent corrections of display projection for both limit values of input signal may be performed by trimmers under the front panel ($\pm 10\%$)

OPTION

EXCITATION is suitable for feeding of sensors and transmitters. It is isolated, with continuously adjustable value in the range of 2...24 VDC.



TECHNICAL DATA

PROJECTION

Display: ±19999, red or green 7-segment LED, digit height 14 mm
Decimal point: adjustable - by jumper
Brightness: adjustable - by trimmer under front panel

INSTRUMENT ACCURACY

TK: 100 ppm/C
Accuracy: ±0,15 % of range + 1 digit
 $\pm 0,2\%$ of range + 1 digit
Rate: 1,2...10 meas./s
Overload capacity: 20x [t < 30 ms] - not for 300 V and 5 A
Calibration: at 25°C and 40% r.h.

EXCITATION

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

RTD

PM

POWER SUPPLY
 24, 110, 230 VAC, 50/60 Hz, ±10%, 5 VA
 10...30 VDC/max. 300 mA, PF ≥ 0,4, I_{STP} < 40 A/1 ms, isolated
 80...250 V AC/DC, PF ≥ 0,4, I_{STP} < 40 A/1 ms, isolated

MECHANICAL PROPERTIES

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

OPERATING CONDITIONS

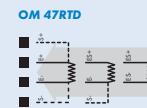
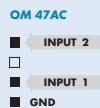
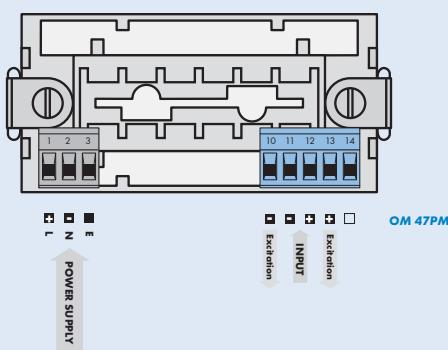
Connection: connector terminal board, section < 2,6 mm²
Stabilization period: within 15 minutes after switch-on
Working temperature: 0°...60°C
Storage temperature: -10°...85°C
Cover: IP40, on request IP64 (front panel only)
El. safety: EN 61010-1, A2
Dielectric strength: 4 kVAC after 1 min between supply and input
 4 kVAC after 1 min between supply and relay output
Insulation resistance: for pollution degree II, measuring cat. III.
 AC Power supply > 600 V [ZI], 300 V [DII]
 DC Power supply, input, Exc. > 300 V [ZI], 150 V [DII]
EMC: EN 61326-1

Pi - Primary insulation, Di - Double insulation

MEASURING RANGES

DC	AC	PM	OHM	RTD
A ±199,99 mV	0...199,99 mV	0...5 mA	0...199,99 Ω	Pt 100
B ±19999 V	0...19999 V	0...20 mA	0...1,9999 kΩ	Pt 500
C ±19,999 V	0...19,999 V	4...20 mA	0...19,999 kΩ	Pt 1 000
D ±199,99 V	0...199,99 V	±2 V	0...199,99 kΩ	
E ±300,0 V	0...300,0 V	±5 V		
F		±10 V		
H			5...100 Ω	
J ±199,99 µA				
K ±1,9999 mA				
L ±19,999 mA				
M ±199,99 mA	0...199,99 mA			
N ±19999 A	0...1,9999 A			
P ±5,000 A	0...5,000 A			
Z on request	on request	on request	on request	

CONNECTION



ORDER CODE

OM 47

Type

			0	0		
--	--	--	---	---	--	--

D	C	•	•	•	•	•
A	C	•	•	•	•	•
P	M	•	•	•	•	•
O	H	•	•	•	•	•
R	T	•	•	•	•	•

Order code shall not include blank spaces!

Power supply

0
1
3
4
5

24 VAC/50 Hz

230 VAC/50 Hz

110 VAC/50 Hz

10...30 VDC, isolated

80...250 V AC/DC, isolated

Analog output

?

Comparators

0

Excitation

0

Excitation

1

Connection

1

2-wire

2

3-wire

3

4-wire

4

Display color

1

red

2

green

Please, state the requested projection for selected input range in your order [PM, OHM]!
 (e.g.: Input 0...20 mA > projection 0.00...100.00)

Default execution is shown in bold