



- 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

#### 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.

## OM 47

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

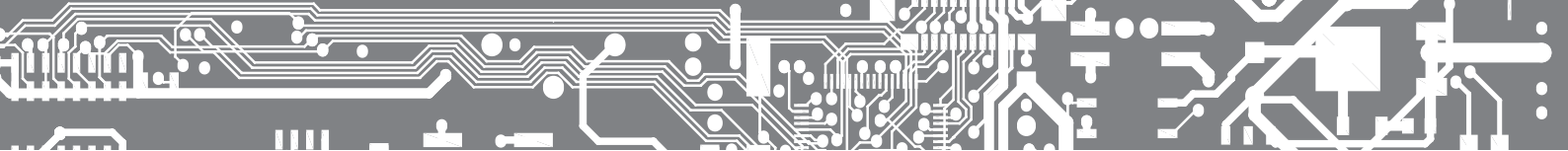
**OM 47DC**  
DC VOLTMETER AND AMMETER

**OM 47AC**  
AC VOLTMETER AND AMMETER

**OM 47PM**  
PROCESS MONITOR

**OM 47OHM**  
OHMMETER

**OM 47RTD**  
THERMOMETER FOR Pt/Ni



## 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  
 ±0,2% of range + 1 digit **RTD**  
**Rate:** 1,2...10 meas./s  
**Overload capacity:** 10x (t < 30 ms) - not for 300 V and 5 A; 2x  
**Calibration:** at 25°C and 40 % r.h.

### EXCITATION

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

### POWER SUPPLY

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

### MECHANIC PROPERTIES

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

### OPERATING CONDITIONS

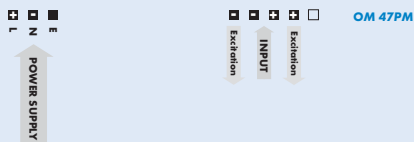
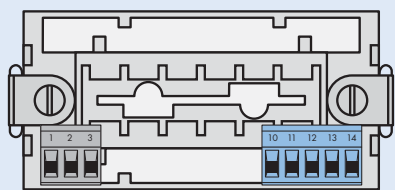
**Connection:** connector terminal board, section < 2,5 mm²  
**Stabilization period:** within 15 minutes after switch-on  
**Working temperature:** 0°...60°C  
**Storage temperature:** -10°...85°C  
**Cover:** IP40, on request IP64 (front panel only)  
**El. safety:** EN 61010-1, A2  
**Dielectric strength:** 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 [Z], 300 V [DI]  
 DC Power supply, input, Exc. > 300 V [Z], 150 V [DI]  
**EMC:** EN 61326-1

PI - Primary insulation, DI - Double insulation

## MEASURING RANGES

	DC	AC	PM	OHM	RTD
<b>A</b>	±199,99 mV	0...199,99 mV	0...5 mA	0...199,99 Ω	PI 100
<b>B</b>	±1,9999 V	0...1,9999 V	0...20 mA	0...1,9999 kΩ	PI 500
<b>C</b>	±19,999 V	0...19,999 V	4...20 mA	0...19,999 kΩ	PI 1 000
<b>D</b>	±199,99 V	0...199,99 V	±2 V	0...199,99 kΩ	
<b>E</b>	±300,0 V	0...300,0 V	±5 V		
<b>F</b>			±10 V		
<b>H</b>				5...105 Ω	
<b>J</b>	±199,99 μA				
<b>K</b>	±1,9999 mA				
<b>L</b>	±19,999 mA				
<b>M</b>	±199,99 mA	0...199,99 mA			
<b>N</b>	±1,9999 A	0...1,9999 A			
<b>P</b>	±5,000 A	0...5,000 A			
<b>Z</b>	on request	on request	on request	on request	

## CONNECTION



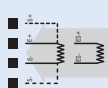
### OM 47DC

INPUT 2  
 INPUT 1  
 GND

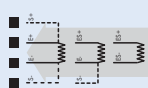
### OM 47AC

INPUT 2  
 INPUT 1  
 GND

### OM 47OHM



### OM 47RTD



## ORDER CODE

### OM 47

□ □ □ - □ □ □ □ □ □

Type

<b>D</b>	<b>C</b>	•	•	•	•	•	•	•	•
<b>A</b>	<b>C</b>	•	•	•	•	•	•	•	•
<b>P</b>	<b>M</b>	•	•	•	•	•	•	•	•
<b>O</b>	<b>H</b>	•	•	•	•	•	•	•	•
<b>R</b>	<b>T</b>	•	•	•	•	•	•	•	•

Order code shall not include blank spaces!

Power supply

24 VAC/50 Hz	<b>0</b>				
<b>230 VAC/50 Hz</b>	<b>1</b>				
110 VAC/50 Hz	<b>3</b>				
10...30 VDC, isolated	<b>4</b>				
80...250 V AC/DC, isolated	<b>5</b>				

Measuring range, see table „Measuring ranges“

Comparators **no** 0

Analogue output **none** 0

Excitation **no** 0

yes 1

Connection 2-wire 1

3-wire 2

4-wire 3

Display color **red** 1

green 2

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