

OM 47DC
OM 47AC
OM 47PM
OM 47OHM
OM 47OHM
OM 47RTD
OM 47RTD
DC VOLTMETER AND AMMETER
AC VOLTMETER AND AMMETER
OM 47PM
PROCESS MONITOR
OHMMETER
OM 47RTD
THERMOMETER FOR Pt XXX

- 4 ½ digit projection
- Size of DIN 96 x 24 mm
- Power supply 230 VAC

## **Options**

- Excitation Dual comparator Analog output
- Power supply: 24/110 VAC, 10...30 VDC

## Description

The OM 47 model series are 4  $\frac{1}{2}$  digit panel instruments with good accuracy and stability.

## Operation

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

## Calibration

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

## Options

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

**Dual comparator** serves to monitor two limit values with relay output. Limits have adjustable hysteresis. Reaching the preset limits (top over/bottom under) is signalled by LED and simultaneously 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 or voltage non-isolated outputs. The analog output value corresponds with the input signal.

## Technical data

### **PROJECTION**

Display: ±19999, red or green 7-segment LED, digit height

Decimal point: adjustable - by jumper Brightness: adjustable - by trimmer under front panel

#### INSTRUMENT ACCURACY

**TC:** 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 a 5 A; 2x Calibration: at 25°C and 40% r.h.

### COMPARATOR

Type: analog, adjustable by trimmer under front panel Limits: ±19999

Hysteresis: < 2% of range, adj. by trimmer under front panel Output: 2x relays Form A (250 VAC/30 VDC, 3 A)

Type: non-isolated, AO corresponds with the input signal

Non-linearity: 0,3 % of range

Rate: response to change of value < 40 ms

TC: 100 ppm/°C

**Ranges:** 0...2 V, 0...5 V, 0...10 V, 0/4...20 mA (comp.< 500  $\Omega$ )

### EXCITATION

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

#### **POWER SUPPLY**

24, 110, 230 VAC, 50/60 Hz, ±10%, 5 VA 10...30 VDC/max. 300 mA, isolated 80...250 V AC/DC isolated

### MECHANIC 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 < 2,5 mm<sup>2</sup>

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
Insulation resistance: for pollution degree II, measuring cat. III.

AC power supply > 600 V (PI), 300 V (DI)

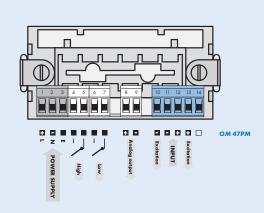
DC power supply, input, output, Exc. > 300 V (PI), 250 V (DI) EMC: EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

PI - Primary insulation, DI - Double insulation

## Measuring ranges

	DC	AC	PM	ОНМ	RTD		RTD
w/o						w/o	
Α	±199,99 mV	0199,99 mV	05 mA	0199,99 Ω	±199,9°C	1	Pt 100
В	±1,9999 V	01,9999 V	020 mA	01,9999 kΩ	-200850°C	2	Pt 500
С	±19,999 V	019,999 V	420 mA	019,999 kΩ		3	Pt 1 000
D	±199,99 V	0199,99 V	±2 V	0199,99 kΩ			
E	±300,0 V	0300,0 V	±5 V				
F			±10 V				
Н				5105 Ω			
J	±199,99 μA						
K	±1,9999 mA						
L	±19,999 mA						
M	±199,99 mA	0199,99 mA					
N	±1,9999 A	01,9999 A					
P	±5,000 A	05,000 A					
Z	on request	on request	on request				

## Connection



14	
23	
12	
=	

# П INPUT 1

## OM 47DC INPUT 2



OM 47AC

# ом 470нм



## Order code

				,	_		_			,	
OM 47				-							
Туре		D	С		•	•	•	•			•
		Α	С		•	•	•	•			•
		P	M		•	•	•	٠	•		•
Order code shall not include blank spaces!	0	Н	M		•	•	•	•		•	•
<u> </u>	R	T	D		•	••	•	•		•	•
Power supply	24 VA	,			0						
	230 VAC/50 Hz										
		110 VAC/50 Hz									
1030 VDC, isolated					4						
80250 V AC/DC, isolated					5	_					
Measuring range, see table "Measuri	ng ranges					?	_				
Comparators			no				0				
			yes			_	1	_			
Analog output			one					0			
	02 V 05 V							1			
	05 V 010 V							3			
								4			
	020 mA 420 mA							5			
Excitation	4	20	no			_		3	0		_
Excitation									1		
Connection		2.	yes wire						•	1	_
Connection		_	wire							2	
*only for type RTD			wire							3	
Display color		4-	red							-	1
Display Color		_									2
		gı	reen								

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)