OM 47



- 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

OM 47DC DC VOLTMETER AND AMMETER
OM 47AC AC VOLTMETER AND AMMETER
OM 47PM PROCESS MONITOR
OM 47OHM OHMMETER

THERMOMETER FOR Pt XXX

Description

OM 47RTD

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

Rate: 1,2...10 meas./s
Overload capacity: 10x (t < 30 ms) - not for 300 V a 5 A; 2x Calibration: at $25\,^{\circ}$ 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 Ω)

EXCITATION

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

RTD

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 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: 2,5 kVAC after 1 min between supply and input

2,5 kVAC after 1 min between supply and relay output Insulation resistance: for pollution degree II, measuring cat. III. AC power supply > 600 V (PI), 300 V (DI)

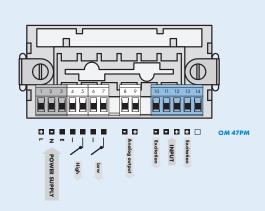
DC power supply, input, output, Exc. > 300 V (PI), 250 V (DI) EMC: EN 61326-1

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					
Р	±5,000 A	05,000 A					
z	on request	on request	on request				

Connection





OM 47DC INPUT 2



OM 47AC

ом 470нм



Order code

OM 47				-							
Туре		D	С		•	•	•	•			•
7,6-5		A	c		•	•	•	•			•
		P	М		•	•	•	•	•		•
Order code shall not include blank spaces!		н	М		•	•	•	•		•	•
		Т	D		•	••	•	•		•	•
Power supply 2	4 VA	C/50) Hz		0						
23	C/50) Hz		1							
110 VAC/50 H					3						
1030 VDC, isolated											
80250 V AC/DC, isolated											
Measuring range, see table "Measuring			?								
Comparators			no				0				
			yes				1				
Analog output		n	one					0			
	02 V 05 V						1				
							2				
		01	0 V					3			
	020 mA							4			
420 mA								5			
Excitation			no						0		
			yes						1		
Connection		2-	wire							1	
		* 3-	wire							2	
*only for type RTD		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)