

OMM 37



- 3 ½ digit projection
- Size of DIN 48 x 24 mm
- Power supply 7...12 VDC

Options

- Power supply 10...30 VDC, isolated

OMM 37DC	VOLTMETER AND AMMETER
OMM 37PM	PROCESS MONITOR
OMM 37RTD	THERMOMETER FOR Pt 100

Description

The OMM 37 model series are small 3 ½ digit panel instruments with good accuracy and stability.

For their small dimensions the instruments are suitable for mosaic panels mounting applications.

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 from the back of the instrument ($\pm 10\%$).

Options

Isolated power supply with the range of 10...30 VDC is designed for applications, where it is necessary to use galvanic separation from the input signal.

Technical data

PROJECTION

Display: ± 1999 , red or green 7-segment LED, digit height 9,1 mm

Decimal point: adjustable - by jumper

Brightness: adjustable - by trimmer under front panel

INSTRUMENT ACCURACY

TC: 50 ppm/ $^{\circ}\text{C}$

Accuracy: $\pm 0,1\%$ of range + 1 digit

$\pm 0,8\%$ of range + 1 digit

Rate: 2,5 meas./s

Resolution: 1°C (RTD)

Overload capacity: 10x ($t < 30$ ms); 2x

Calibration: at 25°C and 40% r.h.

RTD

POWER SUPPLY

7...12 V AC/DC, max. 100 mA

10...30 VDC/ 24VAC, max. 160 mA, isolated

MECHANIC PROPERTIES

Material: Noryl GFN2 SE1, incombustible UL 94 V-I

Dimensions: 48 x 24 x 72 mm

Panel cutout: 43,5 x 22,5 mm

OPERATING CONDITIONS

Connection: connector terminal board, section $< 2,5$ mm²

Stabilization period: within 15 minutes after switch-on

Working temperature: $0^{\circ}\text{...}60^{\circ}\text{C}$

Storage temperature: $-10^{\circ}\text{...}85^{\circ}\text{C}$

Cover: IP42 (front panel only)

El. safety: EN 61010-1, A2

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

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

Power supply, input > 300 V (PI), 250 V (DI)

EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

Measuring ranges

	DC	PM	RTD
w/o			Pt 100 ($-20^{\circ}\text{...}140^{\circ}\text{C}$)
A	$\pm 199,9$ mV	0...5 mA	
B	$\pm 1,999$ V	0...20 mA	
C	$\pm 19,99$ V	4...20 mA	
D	$\pm 199,9$ V	± 2 V	
E		± 5 V	
F		± 10 V	
J	$\pm 199,9$ μA		
K	$\pm 1,999$ mA		
L	$\pm 19,99$ mA		
M	$\pm 199,9$ mA		
Z	on request	on request	

Connection



OM 37DC, PM



OM 37RTD

Order code

OMM 37

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Type

D	C	•	•	•
P	M	•	•	•
R	T	D	•	•

Power supply

7...12 V, non-isolated

10...30 V, isolated

1
2

Measuring range, see table „Measuring ranges“

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Display color

red

green

1
2

Please, state the requested projection for selected input range in your order (PM)!
(e.g.: input 0...20 mA > projection 0.0...100.0)