

## 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

<b>OMM 37DC</b>	<b>VOLTMETER AND AMMETER</b>
<b>OMM 37PM</b>	<b>PROCESS MONITOR</b>
<b>OMM 37RTD</b>	<b>THERMOMETER FOR Pt 100</b>

### 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:**  $\pm 1999$ , 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:** 100 ppm/ $^{\circ}\text{C}$

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

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

**Rate:** 2,5 meas./s

**Resolution:**  $1^{\circ}\text{C}$  (RTD)

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

**Calibration:** at  $25^{\circ}\text{C}$  and 40% r.h.

### POWER SUPPLY

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

10...30 VDC, max. 160 mA, isolated

### MECHANIC PROPERTIES

**Material:** Noryl GFN2 SE1, incombustible UL 94 V-1

**Dimensions:** 48 x 24 x 72 mm

**Panel cutout:** 43,5 x 22,5 mm

### OPERATING CONDITIONS

**Connection:** connector terminal board, section  $< 2,5$  mm<sup>2</sup>

**Stabilization period:** within 15 minutes after switch-on

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

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

**Cover:** IP42 (front panel only)

**El. safety:** EN 61010-1, A2

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

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

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	$\pm 2$ V	
E		$\pm 5$ V	
F		$\pm 10$ V	
J	$\pm 199,9$ $\mu\text{A}$		
K	$\pm 1,999$ mA		
L	$\pm 19,99$ mA		
M	$\pm 199,9$ mA		
Z	on request	on request	

## Connection



OMM 37DC, PM



OMM 37RTD

## Order code

### OMM 37

Type

□ □ □ □ - □ □ □ □

D	C	•	•	•
P	M	•	•	•
R	T	D	•	•

Power supply 7...12 V, non-isolated 1

10...30 V, isolated 2

Measuring range, see table „Measuring ranges“ ?

Display color red 1

green 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)