

OMM 370DC



2003-3-en

- **3 ³/₄ digit programmable projection**
- **60/150/300 mV; 4/40/300 V**
- **400 mA/1A/5 A**
- **Simple comparator**
- **Digital filter**
- **Size of DIN 72 x 24 mm**
- **Power supply 10...30 V AC/DC**

Description

The OMM 370DC model is a small 3 ³/₄ digit panel programmable DC voltmeter/ammeter.

The instrument is based on an 8-bit controller with precise A/D converter, that secures high accuracy, stability and easy operation of the instrument.

For its dimensions it is suitable for mosaic panels mounting applications.

Standard functions

Programmable display projection

Setting manual, optional projection on the display may be set for the maximum input signal value in „CM”,
e.g.: range 0...39,99 V ⇒ projection 0...350,0
-999...3999

Projection

Digital filter

Radius of insensitiv. band of suppressed change of measured value

External control

Hold display/instrument blocking
Lock control keys blocking

Output

Limit relay with switching contact,
The limit has both adjustable hysteresis and optional delay of the switch-on. Reaching the limit is signalled by LED and at the same time by the switch-on of the relevant relay.

Operation

The instrument is set and controlled by four control keys located on the front panel. All programmable settings of the instrument are realised in two adjusting modes.

Configuration menu (hereinafter referred to as CM) is protected by an optional number code and contains complete instrument setting

User menu may contain arbitrary programming settings defined in „CM” with another selective restriction (see, change)

All programmable parameters are stored in the EEPROM memory (they hold even after the instrument is switched off).

The measured units may be projected on the display.

Technical data

MEASURING RANGE		Impedance/Max. drop	
Voltage:	0...60 mV	1,8 MOhm	Input 1
	0...150 mV	1,8 MOhm	Input 1
	0...300 mV	1,8 MOhm	Input 1
	0...4 V	1,8 MOhm	Input 2
	0...40 V	1,8 MOhm	Input 2
	0...300 V	1,8 MOhm	Input 2
Current:	0...400 mA	< 50 mV	Input 2
	0...1 A	< 50 mV	Input 1
	0...5 A	< 50 mV	Input 1

PROJECTION

Display:	-999...3999, red or green 7-segment LED, digit height 9,1 mm
Decimal point:	adjustable - in programming mode
Brightness:	adjustable - in programming mode

INSTRUMENT ACCURACY

Tempco:	60 ppm/°C
Accuracy:	±0,15 % of range ±0,25 % of range + 1 digit (for 60/150/300 mV)
Rate:	1,3 - 2,5 - 5 - 10 - 20 - 40 measurements/s
Overload capacity:	10x (t < 30 ms) - does not apply for 300 V and 5 A, 2x (long-term)
Watch-dog:	reset after 1,2 s
Function:	Hold - stop measuring (upon contact) Lock - control keys blocking (upon contact), not simultaneously with Hold function Digital filter - adjustable in Configuration menu
Calibration:	at 25°C and 40 % r.h.

COMPARATOR

Type:	digital, adjustable in programming mode, contact switch-on < 30 ms
Limit 1	-999...3999
Hysteresis:	0...999
Delay:	0...99,9 s
Outputs:	relay with switching contact (48 VAC/30 VDC, 3 A)

POWER SUPPLY

10...30 V DC, max. 140 mA, (24 V/45 mA), isolated
12...28 V AC, max. 160 mA, (24 V/110 mA), isolated

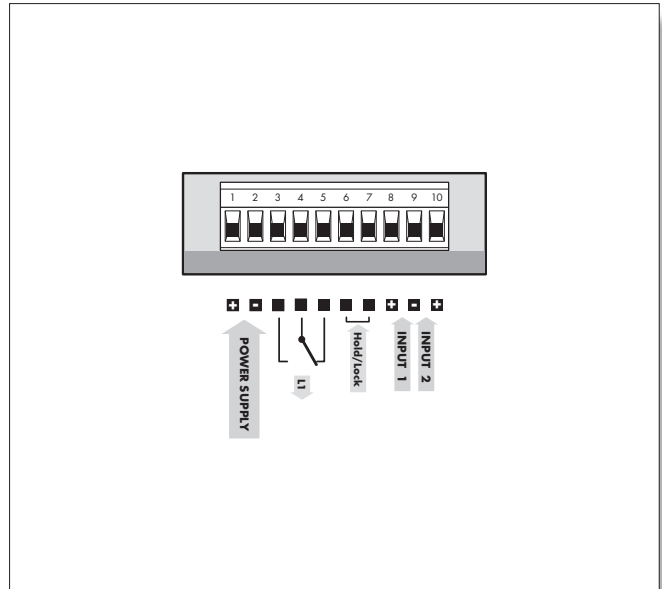
MECHANIC PROPERTIES

Material:	Noryl GFN2 SE1, incombustible UL 94 V-I
Dimensions:	72 x 24 x 106 mm
Panel cut:	68 x 22,5 mm

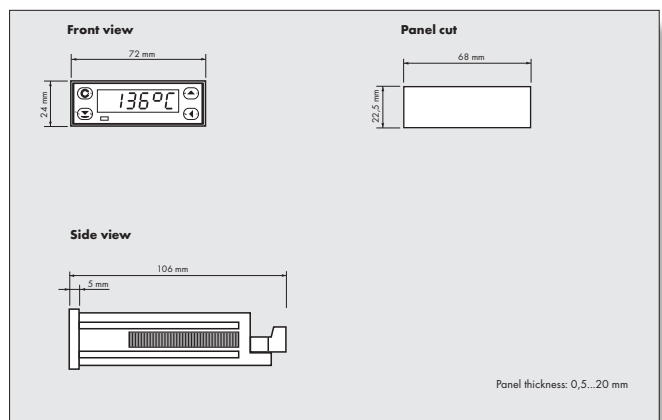
OPERATING CONDITIONS

Connection:	connector terminal board, conductor section up to 2,5 mm ²
Stabilization period:	within 15 minutes after switch-on
Working temperature:	0°...60°C
Storage temperature:	-10°...85°C
Covering:	IP42 (front panel only)
Construction:	safety class I
Electrical safety:	EN 61010-1, A2
Overvoltage category:	for pollution degree II
EMC:	II - instrument power supply, input, relay output (300 V) EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 55022, A1, A2

Connection



Dimensions



Order code

