OMM 370DC

- **3 3/4 digit programmable projection**
- **60 mV ... 300,0 V / 39,99 mA ... 5,00 A**
- **Simple comparator**
- **Digital filter**
- **Size of DIN 72 x 24 mm**
- **Power supply 8...32 V AC/DC**

Description

The OMM 370DC model is a 3 3/4 digit small panel programmable direct-current voltmeter/ammeter.
The instrument is based on an 8-bit μ-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
Projection	-999...3999

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 five 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 A
	0...150 mV	1,8 MOhm	Input A
	0...300 mV	1,8 MOhm	Input A
	0...0,399 V	1,8 MOhm	Input B
	0...3,999 V	1,8 MOhm	Input B
	0...39,99 V	1,8 MOhm	Input B
	0...300,0 V	1,8 MOhm	Input B
Current:	0...399,9 mA	< 260 mV	Input B
	0...1,000 A	< 50 mV	Input A
	0...5,00 A	< 50 mV	Input A

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:	50 ppm/°C
Accuracy:	±0,15 % of range
Rate:	1,3 - 2,5 - 5 - 10 - 20 - 40 measurements/s
Overload capacity:	10x (t < 100 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 < 10 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

8...32 V AC/DC, max. 100 mA, isolated

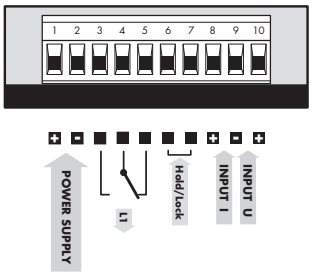
MECHANIC PROPERTIES

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

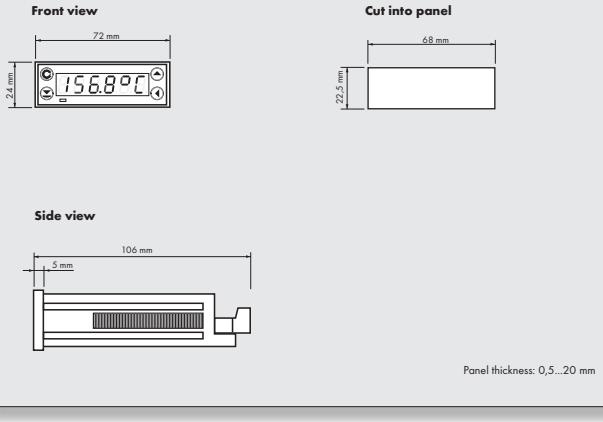
OPERATING CONDITIONS

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 II. - instrument power supply, input, relay output (300 V)
EMC:	EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

Connection



Dimensions



Order code

OMM 370DC - xx

Display color
1: red
2: green

Input
U: Voltage
I: Current

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