

OM 371DC



- 3 ¾ digit programmable projection
- 60 mV ... 300,0 V
- 39,99 mA ... 5,00 A
- Dual comparator
- Digital filter, Tare
- Size of DIN 96 x 48 mm
- Power supply 230 VAC

Options

Data output • Universal analogue output • Power supply 24 VAC, 110 VAC, 10...30 VDC

Description

The OM 371DC is a 3 ¾ digit panel programmable DC voltmeter/

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.

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

Function

Tare resetting display upon non-zero input signal

External control

Hold display/instrument blocking Lock control keys blocking

Output

Limits 2 relays with switching contact,

The limits have both adjustable hysteresis and optional delay of the switch-on. Reaching the limits 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.

Options

Data outputs are for their rate and accuracy suitable for transmission of the measured data for further projection or directly into the control systems. We offer an isolated RS232 and RS485 with the ASCII protocol.

Analogue outputs will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer universal analogue output with the option of selection of the type of output - voltage/current. The value of analogue output corresponds with the displayed data and its type and range are selectable in CM.



Technical data

MEASURING RANGE		Impedance/Max. drop	
Voltage:	060 mV	1,8 MOhm	Input A
	0150 mV	1,8 MOhm	Input A
	0300 mV	1,8 MOhm	Input A
	00,399 V	1,8 MOhm	Input B
	03,999 V	1,8 MOhm	Input B
	039,99 V	1,8 MOhm	Input B
	0300,0 V	1,8 MOhm	Input B
Current:	0399,9 mA	< 260 mV	Input B
	01,000 A	< 50 mV	Input A
	05,00 A	< 50 mV	Input A

PROJECTION

Display: -999...3999, red or green 14-segment LED, digit height 14 mm

Decimal point: adjustable - in Configuration menu Brightness: adjustable - in Configuration/User menu

INSTRUMENT ACCURACY

60 ppm/°C ±0,15 % of range Tempco: Accuracy:

1,3 - 2,5 - 5 - 10 - 20 - 40 measurements/s Rate:

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 Tare - resetting display upon non-zero input signal

Calibration: at 25°C and 40 % r h

COMPARATOR

Type: Limit 1 and 2 digital, adjustable in programming mode, contact switch-on \leq 30 ms

-999...3999 0...999 Hysteresis: 0...99,9 s Delay:

2 relays with switch-on (switch-off) contact (250 VAC/30 VDC, 3 A) Outputs:

- the relay function is adjustable in Configuration menu upon request SSR (250 VAC, 1 A) or open collector may be fitted

DATA OUTPUTS

Data format: rate 150...115 200 Baud, 8 bit + no parity + 1 stop bit

RS 232 isolated

isolated, addressing (max. 31 instruments) RS 485

ANALOGUE OUTPUTS

isolated, programmable with resolution max. 10 000 points, analogue output cor-Type:

responds with the displayed data, output type and range are selectable in CM

Non-linearity: 0,2 % of range 100 ppm/°C Tempco:

response to change of value < 40 ms

Voltage: 0...2 V/5 V/10 V

0...5 mA/0/4...20 mA (compensation of conduct up to 600 0hm) Current:

POWER SUPPLY

24/110/230 VAC, 50/60 Hz, ±10 %, 5 VA 10...30 VDC/max. 300 mA, (24 VDC/110 mA), isolated - power supply is protected by a fuse inside the instruments

MECHANIC PROPERTIES

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

96 x 48 x 120 mm Dimensions: Panel cut: 90.5 x 45 mm

OPERATING CONDITIONS

connector terminal board, conductor section up to 2,5 mm² Connection:

Stabilization period: within 15 minutes after switch-on

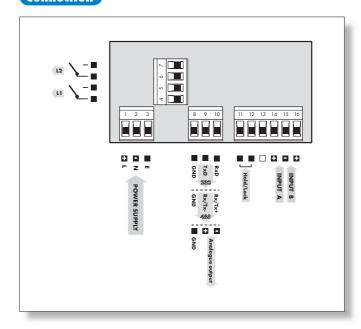
Working temperature: 0°...60°C Storage temperature: -10°...85°C IP65 (front panel only) Covering: Construction safety class I EN 61010-1, A2 Electrical safety: Overvoltage category: for pollution degree II

III. - instrument power supply, relay output (300 V)

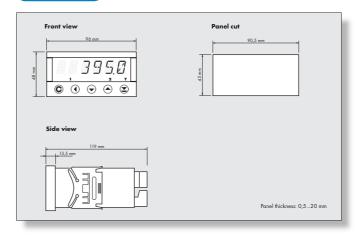
II. - input, output (300 V)

EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2 EMC:

Connection



Dimensions



Order code

