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# **OMX 1000HM**

OMLINK

2003 - 3 - 6



# 999 Ohm; 9,99; 99,9 kOhm; 5...105 Ohm

- Output: 0/4...20 mA/0...5 mA/ 0...2/5/10 V/0...2 kHz
- To DIN rail 35 mm
- Power supply 230 VAC

# **Options**

Dual comparator • Data output • Real time • Power supply: 24 VAC, 110 VAC, 10...30 VDC

### Description

The OMX 1000HM model is a programmable transmitter of resistance to isolated analog output.

The instrument is based on an 8-bit controller with precise A/D converter, that secures high accuracy and stability. For projection of measured data and easier setting it is, as a standard, equipped with illuminated LCD display.

The transmitter is in a plastic DIN box with a terminal board for mounting to rail of 35 mm width.

Transmitter power supply (230 VAC), Input and output signal have galvanic separation with isolation voltage of 500 V.

#### **Standard functions**

#### Input

Setting the input range is selectable in the menu **Digital filter** Radius of insensitiv. band of suppressed change of measured value

from 2...100 measurements

Exponen. average External control

display/instrument blocking control keys blocking or blocking access into menu

Hold Lock

Output Analog

programmable 0...5/0/4...20 mA 0...2/5/10 V 0,2... 2 200 Hz

#### Operation

The transmitter is set by control keys on the front panel or via data line RS 232/485.

A standard equipment is the OM link interface, by means of which it is possible to adjust and file all settings of the equipment as well as perform firmware update. The OM link program is freely accessible on the web.

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



**Dual comparator** serves to monitor two limit values with relay output. The limits have adjustable hysteresis as well as selectable delay of the switch-on. Reaching the preset limits is signalled by LED and simultaneously by the switch-on of the relevant relay.

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.

Real time is an internal time control of data collection. It is suitable everywhere where it is necessary to register measured data in a given time segment. Up to 65 000 values may be stored in the instrument's memory. Data transmission into PC via serial interface RS232/485.



## Technical data

#### **MEASURING RANGE**

MEASORINO RANOL		
Connection:	0999 Ohm 09,99 kOhm 09,9 kOhm 5105 Ohm 2. 3 or 4 wire	
connection:	2, 3 of 4 wire	
PROJECTION		
Display: Decimal point:	LCD with illumination, 2x 3 signs + 2x description (3 signs) adjustable - menu	
INSTRUMENT ACCURACY		
Tempco: Accuracy: Rate: Overload capacity: Watch-dog: Calibration:	100 ppm/°C ±0,2 % of range (applies for 10 measurements/s) 0,5 - 1,2 - 2,5 - 5 - 10 - 20 - 40 - 80 measurements/s 2x (long-term) reset after 20 ms at 25°C and 40 % r.h.	
OUTPUTS		
Analog: Non-linearity: Tempco: Rate: Voltage: Current:	isolated, programmable with resolution max. 12 bit 0,1 % of range 100 ppm/°C response to change of value < 100 ms 02 V/5 V/10 V, upon request ±5 V/±10 V 05 mA/0/420 mA (compensation of conduct up to 600 0hm) upon request ±20 mA	
Corrugation:	5 mV residual corrugation at output voltage 10 V	
Frequency:	isolated, programmable, open collector 0,22 200 Hz	
COMPARATOR		
Type: Limit 1 and 2 Hysteresis: Delay: Outputs:	digital, adjustable in programming mode, contact switch-on < 30 ms -99999 0999 099, s 2 relays with switch-on (switch-off) contact (250 VAC/30 VDC, 3 A) - the relay function is adjustable in Configuration menu	

#### DATA OUTPUTS

Data format:	rate 1 20038 400 Baud, 8 bit + no parity + 1 stop bit
RS 232	isolated
RS 485	isolated, addressing (max. 99 instruments)

#### **POWER SUPPLY**

24; 110; 230 VAC, 50/60 Hz, ±10 %, 5 VA 10...30 VDC/max. 150 mA, (24 VDC/80 mA), isolated - power supply is protected by a fuse inside the instrument

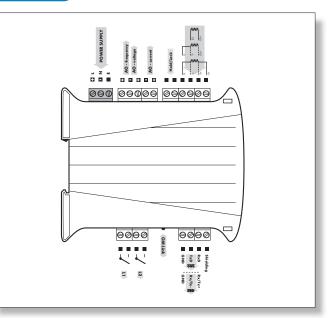
#### **MECHANIC PROPERTIES**

Material:	ABS (UL 94-VO), green
Dimensions:	120 x 101 x 35 mm
Installation:	to DIN rail, width of 35 mm

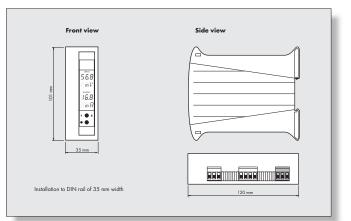
#### **OPERATING CONDITIONS**

Connection:	connector terminal board, conductor section up to 2,5 mm <sup>2</sup>
Stabilization period:	within 15 minutes after switch-on
Working temperature:	0°60°C
Storage temperature:	-10°85°C
Covering:	IP20
Construction:	safety class I
Elektrická bezpečnost:	EN 61010-1, A2
Overvoltage category:	for pollution degree II
	III instrument power supply, relay outputs (500 V)
	II input, output (500 V)
EMC:	EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

# Connection



# Dimensions



### Order code

