

## OM 470HM



- **4 1/2 digit projection**
- **199,99 Ohm...199,99 kOhm /5...105 Ohm**
- **Size of DIN 96 x 48 mm**
- **Power supply 230 VAC**

### Options

Dual comparator • Analogue output • Power supply 24 VAC, 110 VAC, 10...30 VDC

### Description

The OM 470HM model is a 4 1/2 digit panel ohmmeter with great accuracy and stability.

### Operation

In its basic version the instrument is designed for simple measurement without further control. In version with dual comparator its setting is performed by two control keys and potentiometers. Placement of the decimal point is selectable by a shorting link under the front panel.

### Calibration

Contingent corrections of display projection may be performed by a trimmer under the front panel (approx 10 %).

### Options

**Dual comparator** serves to monitor two limit values with relay output. The limits have adjustable hysteresis. Reaching the preset limits (top over/bottom under) is signalled by LED and at the same time by the switch-on of the relevant relay.

**Analogue outputs** will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer several types of current and voltage outputs. The analogue output value corresponds with the input signal.

## Technical data

### MEASURING RANGE

0...199,99 Ohm  
 0...1,9999 kOhm  
 0...19,999 kOhm  
 0...199,99 kOhm  
 5...105 Ohm

Connection: 2 or 4 wire

### PROJECTION

Display: 19999, red or green 7-segment LED, digit height 14 mm  
 Decimal point: adjustable - by shorting link  
 Brightness: adjustable - by potentiometer under the front panel

### INSTRUMENT ACCURACY

Tempco: 100 ppm/°C  
 Accuracy: ±0,2 % of range  
 Rate: 1,2/2,5/5/10 measurements/s  
 Overload capacity: 10x (t < 30 ms), 2x (long-term)  
 Calibration: at 25°C and 40 % r.h.

### COMPARATOR

Type: analogue, adjustable by potentiometers under the front panel  
 Limit 1 and 2: 0...19999  
 Hysteresis: < 2 % of range, adjustable by potentiometers inside the instrument  
 Outputs: 2 relays with switch-on contact (250 VAC/30 VDC, 3 A)

### ANALOGUE OUTPUTS

Type: (non)isolated, analogue output corresponds with the input signal  
 Non-linearity: 0,3 % of range  
 Tempco: 100 ppm/°C  
 Rate: response to change of value < 40 ms  
 Voltage: 0...2 V, 0...5 V, 0...10 V  
 Current: 0/4...20 mA (compensation of conduct up to 600 Ohm)

### POWER SUPPLY

24/110/230 VAC, 50/60 Hz, ±10 %, 5 VA  
 10...30 VDC/max. 300 mA, (24 VDC/110 mA), isolated

### MECHANICAL PROPERTIES

Material: Noryl GFN2 SE1, incombustible UL 94 V-I  
 Dimensions: 96 x 48 x 110 mm  
 Panel cut: 92 x 45 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: IP40, upon request IP64 (front panel only)

Construction: safety class I

Electrical safety: EN 61010-1, A2

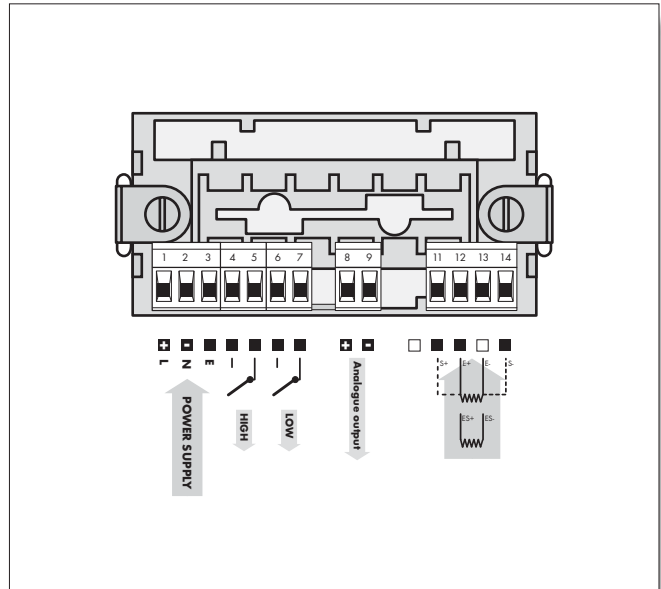
Overtoltage category: for pollution degree II

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

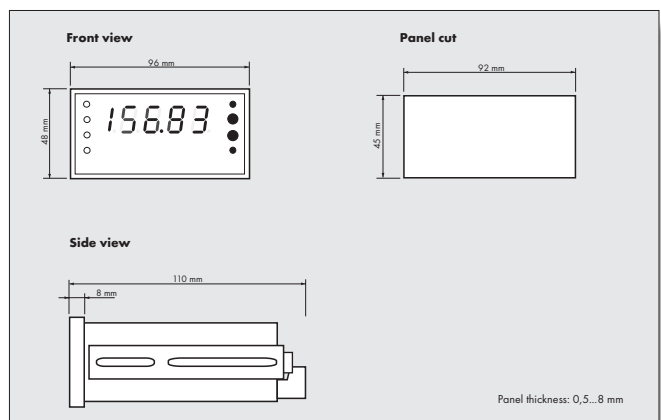
II. - input, output (300 V)

EMC: EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 55022, A1, A2

## Connection



## Dimensions



## Order code

**OM 47OHM - xxxxxxxx**

<b>Power supply</b>	0: 24 VAC/50 Hz	1: 230 VAC/50 Hz	3: 110 VAC/50 Hz	4: 10...30 VDC, isolated
<b>Input</b>	A: 0...199,99 Ohm	B: 0...1,9999 kOhm	C: 0...19,999 kOhm	D: 0...199,99 kOhm
	H: 5...105 Ohm			
<b>Comparators</b>	0: no	1: yes		
<b>Display color</b>	1: red	2: green		
<b>Connection</b>	1: 2-wire	3: 4-wire		
<b>Type of AO</b>	0: non-isolated	1: isolated		
<b>Analogue output</b>	0: no	1: 0...2 V	2: 0...5 V	3: 0...10 V
	4: 0...20 mA	5: 4...20 mA		

Please, state the required input range in your order!