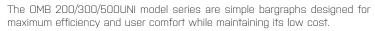
# **OMB** 200/300/500



# **OMB** 200/300/500

(OMLINK)



The OMB 200/300/500UNI type is a multifunction instrument with the option of configuration for 5 different types of inputs easily configurable in the instrument menu.

The instrument is based on an 8-bit microcontroller with A/D converter, which secures good accuracy, stability and easy operation of the instrument.

Another version of the OMB 200/300/500 instrument is the RS type, a display device for projection of data from serial line RS 232/485.

By selecting the mode of insertion of the front plexiglass (reverse/face) you may choose the required printing of scale for vertical or horizontal design of the instrument.

- THREE-COLOR BARGRAPH 20/30/50 LED
- MULTIFUNCTION INPUT (PM, OHM, RTD, DU)
- DIGITAL FILTERS, LINEARIZATION
- POWER SUPPLY 10...30 V AC/DC
- Option Comparators

#### OPERATION

The instrument is set and controlled by five control keys located on the front panel. All programmable settings of the instrument may be performed in two adjusting modes:

PROFI MENU contains complete instrument setting

Standard equipment is the OM Link interface, which together with operation program enables modification and filing of all instrument settings as well as perform firmware updates (with OML cable).

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

# OPTION

**COMPARATORS** are assigned to monitor two limit values with relay output. The limits have adjustable hysteresis within the full range of the display as well as selectable delay of the switch-on in the range of 0...99,9 s. Reaching the preset limits is signalled by LED and simultaneously by the switch-on of the relevant relay.

# **OMB** 200/300/500UNI

PROCESS MONITOR OHMMETER THERMOMETER FOR Pt/Ni DISPLAY UNIT FOR LINEAR POTENTIOMETERS

### **OMB** 200/300/500RS

DATA DISPLAY

#### STANDARD FUNCTIONS

### PROGRAMMABLE PROJECTION

Selection: of input type and measuring range Setting: manual, in menu optional projection on the display may be set for both limit values of the input signal Projection: 20, 30 or 50 LED

#### LINEARIZATION

Linearization: through linear interpolation in 25 points (solely via OM Link)

#### **DIGITAL FILTERS**

Exponential average: from 2...100 measurements Rounding: setting the projection step for display

#### EXTERNAL CONTROL\*

Hold: display/instrument blocking Lock: control keys blocking



## TECHNICAL DATA

PROJECTION Display: three-color LED (red/green/orange) OMB 200 - 20 LED OMB 300 - 30 LED OMB 500 - 50 LED OMB 502 - 2x 50 LED Decimal point: setting - in menu Brightness: setting - in menu	POWER SUPPLY           1030 V DC/24 VAC, ±10 %, 3 VA, PF≥0,4, $I_{cpr}$ < 45 A/1,1 ms           1030 V AC/DC, ±10 %, max. 10 VA, PF≥0,4, $I_{cpr}$ < 45 A/1,1 ms           (only for OMB 500/2)           80250 V AC/0C, ±10 %, max. 10 VA, PF≥0,4, $I_{cpr}$ (only for OMB 500/2)           Power supply is protected by a fuse inside the instrument           (only for OMB 500/502)	
INSTRUMENT ACCURACY TK: 50 ppm/°C Accuracy: ±1% of range + 1 digit Rate: 0,5/56/max. meas/s Overload capacity: 10x (t < 30 ms); 2x Watch-dog: reset after 20 ms Functions: HOLD, LOCK, Digital filters OM Link: Company communication interface for operation, setting and update of instruments Calibration: at 25°C and 40 % r.h. COMPARATOR Type: digital, setting in menu, contact switch-on < 50 ms Limits: within full range Hysteresis: positive values Delay: 039,9 s Output: 1(2)x bistable relays (250 VAC/30 VDC, 3 A), 1(2)x relays Form A (250 VAC/50 VDC, 3 A) only for OMB 500/502	$\label{eq:second} \begin{array}{llllllllllllllllllllllllllllllllllll$	PI - Primary insulation, DI - Double insulation

#### MEASURING RANGES

OMB 200/300/500UNI is a multifunction instrument available in following types and ranges

- 0...20 mA/4...20 mA/0...2 V/ 0...5 V /0...10 V 0...100 k0 Pt 1.000/KTY/Termistor
- PM: OHM: RTD:
- Ni: DU: Ni 1 000 Linear potentiometer (min. 500  $\Omega$ ), poze jeden input (1)

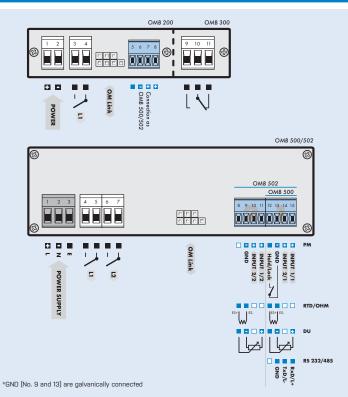
# type OMB xxxRS RS: inp

input RS 232/RS 485, Protocol ASCII/MODBUS - RTU

#### CONNECTING INDIVIDUAL INPUTS

	INPUT 1	INPUT 2
DC	020 mA, 420 mA	02 V/05 V/010 V
OHM	0100 kΩ	
RTD	Pt 1 000/KTY/Termistor	
Ni	Ni 1 000	
DU	Linear potentiometer (min. 500 Q)	

#### CONNECTION



ORDER CODE									
OMB					UNI	-[			-
Туре	20 LED	2	0	0				٠	
	30 LED	з	0	0		- 1		•	
	50 LED	5	0	0			٠	٠	
	2x 50 LED	5	0	2			٠	•	
Power supply	1030 V AC/DC				0				
	80.	250	V AC	C/DC			1		
Comparators				no				0	
	1x relay					1			
	2x relays*							2	
Other	customer version, do not fill in							00	

OMB					RS	-[			-
Туре	20 LED	2	0	0				٠	
	30 LED	3	0	0		- 1		٠	
	50 LED	5	0	0			•	٠	
	2x 50 LED	5	0	2			•	٠	
Power supply	10	.30	V AC	c/oc		11	0		
	802	80250 V AC/DC					1		
Comparators				no				0	
	1x relay							1	
		2x relays*						2	
Other	customer version, do not fill in								00

\* Only for OMB 300 and OMB 500/502

Default execution is shown in bold