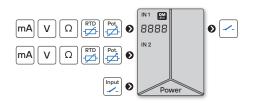
OMB 502UNI



UNIVERSAL DUAL BARGRAPH



OMB 502UNI

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- Three-color bargraph 2x 50 LED
- Two-channel design
- Multifunction input (PM, OHM, RTD, DU)
- Digital filters, Linearization
- Size of DIN 144 x 48 mm
- Power supply 10...30 V AC/DC; 80...250 V AC/DC

Option

Comparators

The OMB 200/300/500UNI model series are simple bargraphs designed for maximum efficiency and user comfort while maintaining their favourable price. Type OMB 502UNI is a multifunction instrument with the option of configuration for 5 various input options, easily configurable in the instrument menu.

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The instrument is based on a microcontroller with ADC which secures good accuracy, stability and easy operation of the instrument.

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

OPERATION

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

LIGHT MENU contains solely items necessary for instrument setting.

 $\ensuremath{\mathsf{PROFI}}$ MENU contains complete instrument setting, which is accessible only via OM Link.

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

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

OPTION

COMPARATORS are assigned to monitor one or two limit values with relay output. The limit has adjustable hysteresis within full range of the display and selectable delay of the switch-on within the range of 0...99 s. Reaching the preset limits is signalled by LED and simultaneously by the switch-on of the relevant relay.

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: 50 LED

FUNCTIONS

Linearization: non-linear signal is converted by a 25-point linear interpolation

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

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No. of inputs		2			
		The range is adjustable in the instrument menu			
PM	Range	020 mA	Input '		
		420 mA	< 1.2 V	Input 1	
		02 V	182 kΩ	Input 2	
		05 V	182 kΩ	Input 2	
		010 V	182 kΩ	Input 2	
DHM	Range	0100 kΩ			
	Connection	2-wire			
RTD	Range	Pt 1 000, 3 850 ppm/°C		-50º450º0	
	Connection	2-wire			
Ni	Range	Ni 1 000, 5 000 ppm/°C		-50º250º0	
	Connection	2-wire			
DU	Sensor power supply	2.5 VDC/6 mA, potentiometer resistance > 500 Ω			
XTEF	RNAL INPUT				
No. of	inputs	1, on contact			
Function		OFF no f	unction assigned		

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LOCK control keys blocking HOLD measurement paused

Bargraph display	2x 50 LED	
Bar color	red / green / orange	
Brightness	adjustable - in menu	
NSTRUMENT SPE	CIFICATION	
тс	50 ppm/°C	
Accuracy	±1% of FS + 1 digit	
Rate	0.550 measurement/s	
Overload	10x (t < 30 ms), 2x	
Compensation of conduct	< 30 Ω RTE	
Digital filters	exponential average, rounding	
Linearization	linear interpolation in 25 points setup only via OM Link	
OM Link	ink company communication interface for operation, setting and update of instruments	
Watch-dog	reset after 25 ms	
	alibration at 25°C and 40 % r.h.	

No. of outputs	up to 2		
Туре	digital, menu adjustable		
Mode	HYSTER. active above set value		
Function Relays	CLOSE is closed in active mode OPEN is open in active mode		
Limits	-99999999999		
Hysteresis	0999999		
Delay	099.9 s		
Outputs	12x relay with switch-on contact (Form A) (250 VAC/30 VDC, 3 A)* 12x open collector (30 VDC/100 mA)		
Relays	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300		

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POWER SUPPLY
Range

Consum

	1030 V AC/DC, ±10 %, PF \geq 0.4, I _{STP} < 40 A/1 ms, isolated 80250 V AC/DC, ±10 %, PF \geq 0.4, I _{STP} < 40 A/1 ms, isolated <i>Protection by fuse inside the device.</i>
otion	< 5.0 W / 5.4 VA

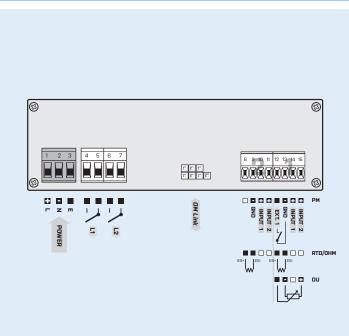
MECHANIC PROPERTIES Mate Dime Pane

erial	Noryl GFN2 SE1, incombustible UL 94 V-I, black
ensions	144 x 48 x 75 mm (w x h x d)
el cutout	138 x 43.5 mm (w x h)

OPERATING CONDIT			
Connection	connector terminal blocks, section < 1.5 / 2.5 mm ²		
Stabilization period	within 5 minutes after switch-on		
Working temperat.	-20º60ºC		
Storage temperat.	-20º85ºC		
Working humidity	< 95 % r.v., non condensing		
Protection	IP40, front panel only		
Construction	safety class I		
El. safety	EN 61010-1, A2		
Dielectric strength	2.5 kVAC for 1 min. between power supply and input 4 kVAC per 1 min test between input and relay output		
Insulation resist.*	for pollution degree II, measuring cat. III power supply > 300 V (PI) input, output > 300 V (PI), 150 V (DI)		
EMC	EN 61326-1, Industrial area		
Seismic qualification	IEC/IEEE 60980-344 Edition 1.0, 2020, par. 6, 9		
Mechanical resistance	EN 60068-2-6 ed. 2:2008		

* PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

OMB 502UNI -				-
Power supply	1030 V AC/DC 80250 V AC/DC	0		
Comparators	no		0	
	1x relay (Form A) 2x relay (Form A)		1 2	
	1x open collector 2x open collector		3 4	
Specification	customized version, do not fill in			00

Basic configuration of the instrument is indicated in bold.