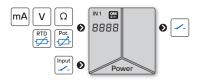
OMB 200UNI



UNIVERSAL BARGRAPH



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.

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

COMPARATOR is assigned to monitor one limit value 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.

OMB 200UNI



- Three-color bargraph 20 LED
- Multifunction input (PM, OHM, RTD, DU)
- Digital filters, Linearization
- Size of DIN 72 x 24 mm
- Power supply 10...30 VDC/24 VAC

Option

Comparator

The OMB 200/300/500UNI model series are simple bargraphs designed for maximum efficiency and user comfort while maintaining their favourable price. Type OMB 200UNI is a multifunction instrument with the option of configuration

for 5 various input options, easily configurable in the instrument menu.

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.

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 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

TECHNICAL DATA

EXTERNAL INPUT No. of inputs

Function

INPUT	•			
No. of inputs		1		
		The range is adjustable in the instrument menu		
РМ	Range	020 mA	< 1.2 V	Input 1
		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
ОНМ	Range	0100 kΩ		
	Connection	2-wire		
RTD	Range	Pt 1 000, 3 850 ppm/°C		-50°450°C
	Connection	2-wire		
Ni	Range	Ni 1 000, 5 000 ppm/°C		-50°250°C
	Connection	2-wire		
DU	Sensor power supply	2.5 VDC/6 mA, potentiometer resistance > 500 Ω		

OFF no function assigned LOCK control keys blocking HOLD measurement paused

Bargraph display	20 LED
Bar color	red / green / orange
Brightness	adjustable - in menu
NSTRUMENT SPECI	
TC	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	company communication interface for operation,
OM LIIIK	setting and update of instruments

at 25°C and 40 % r.h.

Calibration

Function Relays CLOSE is closed in active in complex is open in active in complex			
Function Relays CLOSE open in active is open			
OPEN is open in active Limits -9999999999 Hysteresis 099999 Delay 0999 s	value		
Hysteresis 0999999 Delay 099.9 s			
Delay 099.9 s	-99999999999		
	0999999		
Outputs 1x bistable relays (250 VAC/2			
	1x bistable relays (250 VAC/250 VDC, 3 A/0,3 A)		
Relays 1/8 HP 277 VAC, 1/10 HP 125	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300		

POWER SUPPLY

Range	1030 V DC / AC, ±10 %, PF ≥ 0.4, I _{STP} < 40 A / 1 ms isolated
Consumption	< 1.8 W / 1.9 VA

MECHANIC PROPERTIES

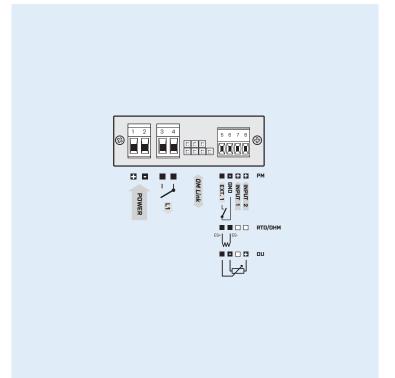
Material	Noryl GFN2 SE1, incombustible UL 94 V-I, black
Dimensions	72 x 24 x 100 mm (w x h x d)
Panel cutout	68 x 21.5 mm (w x h)

OPERATING CONDITIONS

Connection	connector terminal blocks, section < 1.5 / 2.5 mm 2	
Stabilization period	within 5 minutes after switch-on	
Working temperat.	-20°60°C	
Storage temperat.	-20°85°C	
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 200	UNI -		- 🗌
Comparator	no	0	
	1x relay (Form A)	1	
Specification	customized version, do not fill in		00

Basic configuration of the instrument is indicated in bold.