BARGRAPH FOR DATA LINES

- THREE-COLOR BARGRAPH - 30 LED
- INPUT: RS 232/485
- ASCII, MODBUS RTU
- DIGITAL FILTERS, LINEARIZATION
- SIZE OF DIN 96 x 24 MM
- POWER SUPPLY 10...30 VDC/24 VAC
- Option
  Comparators

OMB 300RS

The OMB 200/300/500UNI model series are simple bargraphs.
Type OMB 300RS is a bargraph for data lines RS 232/485.
The instrument is based on a single-chip microcontroller, which secures an 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.

OMB 300RS
DATA DISPLAY RS 232/485

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

COMPARATORS are assigned to monitor one, two or three 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
Input: RS 232/485
Protocol: ASCII - Master/Slave/Universal or MODBUS RTU
Projection: -99999...999999
Projection: 30 LED

FUNCTIONS
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

TECHNICAL DATA

INPUT

RS	**Input**	RS 232/RS 485
	Protocol	**ASCII** - data display, controlled from the master system **ASCII - Master** - the instrument controls data sending from the slave system - „COMM" can be used to select the received data - the instrument asks with the rate of 10 queries/s **ASCII - Slave** - Passive bus display where other devices or computers communicate in „MAST." mode. If the „COMM" and the requested data are correctly received, they will be displayed by the instrument **ASCII - Universal** - in dynamic menu items (Stat, Ad.Un, Sign, Data, Stop, Req.) you can build your own communication protocol format **MODBUS RTU**
	Format	8 bit + no parity + 1 stop bit 7 bit + even parity + 1 stop bit
	Rate	300...230 400 Baud

PROJECTION

Display: 30 LED
Bar color: red/green/orange
Decimal point: adjustable - in menu
Brightness: adjustable - in menu

INSTRUMENT ACCURACY

TK: 50 ppm/°C
Linearization: linear interpol. in 25 points (only via OM Link)
Digital filters: exponential average, rounding
OM Link: Company communication interface for operation, setting and update of instruments.
Watch-dog: reset after 25 ms
Calibration: at 25°C and 40 % r.h.

COMPARATOR

Type: digital, menu adjustable, contact switch-on < 50 ms
Hysteresis mode: switching limit, hysteresis band „Lim ±1/2 Hys." and time (0...99,9 s) determining the switching delay
Output: 1...3x bistabile relays (250 VAC/30 VDC, 3 A)

POWER SUPPLY

Range: 10...30 VDC/24 VAC, ±10 %, PF ≥ 0,4, I_{STP} < 45 A/1,1 ms, isolated
Consumption: < 2,3 W/2,4 VA

MECHANIC PROPERTIES

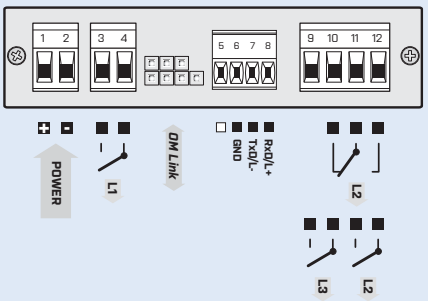
Material: Noryl GFN2 SE1, incombustible UL 94 V-I
Dimensions: 96 x 24 x 100 mm (w x h x d)
Panel cutout: 92 x 21,5 mm (w x h)

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 1,5/2,5 mm²
Stabilization period: within 15 minutes after switch-on
Working temperature: -20°...60°C
Storage temperature: -20°...85°C
Protection: IP40 (front panel only)
El. safety: EN 61010-1, A2
Dielectric strength: 2,5 kVAC per 1 min test between supply and input
Insulation resistance: for pollution degree II, measuring cat. III
power supply > 300 V (PI)
input, output > 300 V (PI), 150 V (DI)
EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

OMB 300RS - ☐ - ☐

Comparators	**no**	**0**	
	1x relay (Form A)	**1**	
	2x relays (Form A/Form C)	**2**	
	3x relay (Form A)	**3**	
Specification	**customized version, do not fill in**		**00**

Basic configuration of the instrument is indicated in bold.