DATA DISPLAY RS 485

- 4-DIGIT PROGRAMMABLE PROJECTION
- INPUT: RS 485
- DIGITAL FILTER
- SIZE OF DIN 48 X 24 MM
- POWER SUPPLY 10...30 VDC/24 VAC

OMM 323RS

OMLINK

OMM 323RS is a 4-digit data display from the serial line RS 485.
The instrument is based on a single-chip microcontroller, which ensures good accuracy, stability and easy operation of the instrument.

OMM 323RS
DATA DISPLAY RS 485

OPERATION

The instrument is controlled by four buttons situated under the front panel. All programmable settings of the instrument may be performed in three adjusting modes:

LIGHT MENU is protected by optional number code and contains solely items necessary for instrument setting.

PROFI MENU is protected by optional number code and contains complete instrument setting.

USER MENU may contain arbitrary items from the programming menu (LIGHT/PROFI), which determine the right (see, change). Access w/o password.

Standard equipment is the OM Link interface, which together with operation program enables modification and filing of all instrument settings as well as performing firmware updates (with OML cable). The program is also designed for visualization and filing of measured values from more instruments.

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

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION
Input: RS 485
Protocol: ASCII - Master/Slave/Universal or MODBUS RTU
Projection: 9999

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

TECHNICAL DATA

INPUT

RS	**Input**	RS 485
	Protocol	**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
	Rate	300...230 400 Baud
Line termination		short-circuit jumper on the connector

PROJECTION

Display: -999...9999, single color 7-segment LED
Digit height: 9,1 mm
Display color: red or green
Decimal point: adjustable - in menu
Brightness: adjustable or automatically controllable

INSTRUMENT ACCURACY

TK: 50 ppm/°C
Watch-dog: reset after 500 ms
OM Link: Company communication interface for operation, setting and update of instruments.
Calibration: at 25°C and 40 % r.h.

POWER SUPPLY

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

MECHANIC PROPERTIES

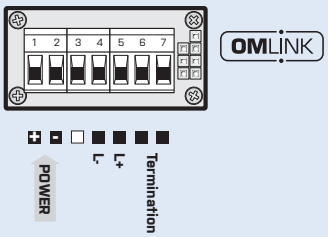
Material: Noryl GFN2 SE1, incombustible UL 94 V-I
Dimensions: 48 x 24 x 72 mm (w x h x d)
Panel cutout: 43,5 x 21,5 mm (w x h)

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 1,5 mm²
Stabilization period: within 15 minutes after switch-on
Working temperature: -20°...60°C
Storage temperature: -20°...85°C
Protection: IP42 (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)
EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

OMM 323RS - ☐☐☐ - ☐

Power supply	10...30 VDC/24 VAC	**0**			
	10...30 VDC/24 VAC, isolated	**1**			
Input	**ASCII**		**A**		
	MODBUS RTU		**B**		
Display color	**red**			**1**	
	green			**2**	
Specification	**customized version, do not fill in**				**00**

Basic configuration of the instrument is indicated in bold.