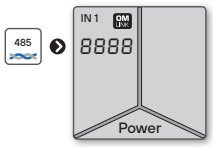
OMM 323RS

- 4-digit programmable projection
- Input RS 485
- Digital filter
- Size of DIN 48 x 24 mm
- Power supply 10...30 VDC / 24 VACC

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

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

No. of inputs		1
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
	Adresse	ASCII 0...31 Modbus 1...247
	Rate	300...230 400 Baud
	Line termination	short-circuit jumper on the connector *resistance inside the instrument is 120 R*

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 SPECIFICATION

TC	50 ppm/°C
OM Link	company communication interface for operation, setting and update of instruments
Watch-dog	reset after 500 ms
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 ms, isolated
Consumption	< 1 W / 1.1 VA

MECHANIC PROPERTIES

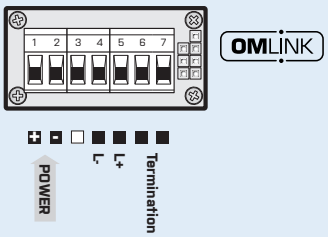
Material	Noryl GFN2 SE1, incombustible UL 94 V-I, black
Dimensions	48 x 24 x 72 mm (w x h x d)
Panel cutout	43.5 x 21.5 mm (w x h)

OPERATING CONDITIONS

Connection	connector terminal blocks, section < 1.5 mm²
Stabilization period	within 5 minutes after switch-on
Working temperat.	-20°...60°C
Storage temperat.	-20°...85°C
Working humidity	< 95 % r.v., non condensing
Protection	IP42, 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
Insulation resist.*	for pollution degree II, measuring cat. III power supply > 300 V (PI)
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

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.