



ENGLISH

## Datasheet

# RS PRO Digital Panel Meter Process Monitor Data Display RS 485

Stock number: 188-3476



### DATA DISPLAY RS 485

- 4-digit programmable projection
- Input: RS 485
- ASCII, MODBUS-RTU
- Size of DIN 51,5 x 29,5 mm
- Power supply 24 V AC/DC

188-3476 is a 4-digit data display from the serial line RS 485. The instrument is based on a microcontroller and an A/D converter, which ensures good accuracy and easy operation of the instrument.

The 22 mm cross-section of the circular instrument body allows its convenient mounting into mosaic and signaling panels.

#### OPERATION

The instrument is set and controlled by two buttons located on its the body.

Standard equipment is the OM Link USB interface, which, when using the control program, allows you to edit and archive all device settings and to update firmware.

All settings are stored in FLASH memory (they hold even after the power is turned off).

#### STANDARD FUNCTIONS

##### PROGRAMMABLE PROJECTION

Input: RS 485

Protocol: ASCII - Master/Slave/Universal or MODBUS RTU

Projection: 9999

## TECHNICAL DATA

### INPUT

Number of inputs	1
RS Input	RS 485
Protoc.	<p>ASCII - Master</p> <ul style="list-style-type: none"> <li>- the instrument controls data sending from the slave system</li> <li>- „COMM“ can be used to select the received data</li> <li>- the instrument asks with the rate of 10 queries/s</li> </ul> <p>ASCII - Slave</p> <ul style="list-style-type: none"> <li>- 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</li> </ul> <p>ASCII - Universal</p> <ul style="list-style-type: none"> <li>- in dynamic menu items (Stat, Ad.Un, Sign, Data, Stop, Req.) you can build your own communication protocol format</li> </ul> <p>MODBUS RTU</p>
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:** 14 mm  
**Display color:** red  
**Decimal point:** adjustable - in menu  
**Brightness:** adjustable

### INSTRUMENT ACCURACY

**TK:** 50 ppm/°C  
**Watch-dog:** reset after 500 ms  
**Calibration:** at 25°C and 40 % r.h.

### POWER SUPPLY

**Range:** 24 V DC/AC,  $\pm 10\%$ ,  $PF \geq 0,4$ ,  
 $I_{STP} < 45\text{ A}/1,1\text{ ms}$   
**Consumption:**  $< 0,2\text{ W}/0,2\text{ VA}$

### MECHANIC PROPERTIES

**Material:** PA66, incombustible UL 94 V-I  
**Dimensions:** 51,5 x 29,5 x 66 mm (w x h x d)  
**Panel cutout:**  $\varnothing 22,5\text{ mm}$

### OPERATING CONDITIONS

**Connection:** connector terminal blocks, section  $< 1,3\text{ mm}^2$   
**Stabilization period:** within 5 minutes after switch-on  
**Working temperature:**  $-20^\circ\text{...}60^\circ\text{C}$   
**Storage temperature:**  $-20^\circ\text{...}85^\circ\text{C}$   
**Protection:** IP65 (front panel only)  
**El. safety:** EN 61010-1, A2  
**Dielectric strength:** 700 VAC per 1 min test between supply and input  
**Insulation resistance:** for pollution degree II, measuring cat. II.  
**power supply**  $> 250\text{ V (PI)}$   
**EMC:** EN 61326-1

PI - Primary insulation, DI - Double insulation

## CONNECTION

