

Datasheet

RS PRO Digital Panel Meter Process Monitor Data Display RS 485

Stock number: 188-3477



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 10...30 V DC/24 VAC

188-3477 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"> - 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 <p>ASCII - Slave</p> <ul style="list-style-type: none"> - 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 <p>ASCII - Universal</p> <ul style="list-style-type: none"> - in dynamic menu items (Stat, Ad.Un, Sign, Data, Stop, Req.) you can build your own communication protocol format <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: 10...30 VDC/24 VAC, $\pm 10\%$, $PF \geq 0,4$,
 $I_{STP} < 45\text{ A}/1,1\text{ ms}$, isolated
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: $-20^{\circ}\dots 60^{\circ}\text{C}$
Storage temperature: $-20^{\circ}\dots 85^{\circ}\text{C}$
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

