

Datasheet

RS PRO Digital Panel Meter Universal Counter

Stock number: 188-3481



UNIVERSAL COUNTER

- 4-digit programmable projection
- Counter/frequency/clock/timer
- 0,1 Hz...10 kHz
- Digital filters
- Size of DIN 51,5 x 29,5 mm
- Power supply 10...30 V DC/24 VAC

188-3481 is a universal 4-digit counter/frequency meter/timer/Clock

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: NPN, PNP, on contact,

Setting: measuring mode counter/frequency/timer with adjustable calibration coefficient, time base and projection

Time base: 0,1...50 s

Projection: -999...9999 with time format 10/24/60

FUNCTIONS

Preset: initial nonzero value that is always read after resetting the device

1/Fr.: filter to convert frequency to time

Input filter: passes the input signal up to 1...1 000 Hz

TECHNICAL DATA

INPUT

Number of inputs	1
UC Input	optional in configuration menu on contact, NPN/PNP 0...30 V, comparison levels are adjustable in the menu
Input freque.	0,1 Hz...10 kHz
Measur. mode	COU. Counter FREQ. Frequency measurement 1/Fr. Periods measurement TIME Timer
Time base	0,1/0,5/1/5/10/50 s
Calibr. const.	0,001...9999
Preset	0...9999
Input filter	0/1/10/45/55/65/100/1000 Hz
Funct.	Preset

PROJECTION

Display: -999...9999, single color 7-segment LED
Projection for the Mode „TIME“
99.59 hours/minutes
23.59 hours/minutes
59.59 minutes/seconds
59.99 seconds/hundredths
99.59 days/hours
Digit height: 14 mm
Display color: red
Decimal point: adjustable - in menu
Brightness: adjustable

INSTRUMENT ACCURACY

TK: 50 ppm/°C
Accuracy: ±0,05% of value + 1 digit
Overload capacity: 2x
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,
 $I_{STP} < 45 \text{ A}/1,1 \text{ ms}$, isolated
Consumption: < 0,2 W/0,2 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: ø 22,5 mm

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 1,3 mm²
Stabilization period: within 5 minutes after switch-on
Working temperature: -20°...60°C
Storage temperature: -20°...85°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 V (PI)
EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION

