

OMM 335UC



Type OMM 335UC 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 signalling panels.

UNIVERSAL COUNTER

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

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UNIVERSAL COUNTER

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

Measur. channels: A and C, two independent functions (number/frequency) can be evaluated from one measuring input

Time base: 0,1...50 s

Projection: -999...9999 with fixed or floating DT format 10/24/60

FUNCTIONS

Linearization: non-linear signals can be linearized by the means of a linearization table (up to 50 points)

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

DIGITAL FILTERS

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 frequency	0,1 Hz...10 kHz	
Measuring mode	COU. counter	FREQ. Frequency measurement
	1/Fr. Periods measurement	TIME Timer
Time base	0,1/0,5/1/5/10/50 s	
Calibration constant	0,001...9999	
Preset	0...9999	
Input filter	0/1/10/45/55/65/100/1000 Hz	
Functions	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 or green

Decimal point: adjustable - in menu

Brightness: adjustable

INSTRUMENT ACCURACY

TC: 50 ppm/°C

Accuracy: ±0,05 % of value + 1 digit

Overload capacity: 2x

Linearization: linear interpolation in 50 points (only via OM Link) (only via OM Link)

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: 24 V DC/AC, ±10 %, PF ≥ 0,4, $I_{STP} < 45 \text{ A}/1,1 \text{ ms}$

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

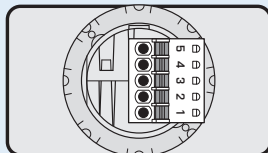
Insulation resistance: for pollution degree II, measuring cat. II.

power supply > 250 V (PI)

EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION



- 5 **GND**
- 4 **Input A**
- 3 **Reset**
- 2 **Power**
- 1

ORDER CODE

OMM 335UC

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Power supply	10...30 V AC/DC	0	
	24 V AC/DC	2	
Display color	red		1
	green		2
Specification	customized version, do not fill in		00

Basic configuration of the instrument is indicated in bold.