

## OMM 335UC

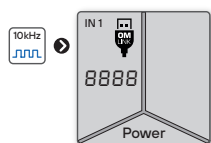


- 4-digit programmable projection
- Counter/frequency/clock/timer
- 0.1 Hz...10 kHz
- Digital filters, Linearization
- Size of 51.5 x 29.5 mm, Ø 22 mm
- Power supply 10...30 VDC/24 VAC

Type OM 335UC is a universal 4-digit counter/frequency meter/timer/clock. The instrument is based on a microcontroller, 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



### 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 fixed or floating DT format 10/24/60

#### FUNCTIONS

**Linearization:** non-linear signal is converted by a 50-point linear interpolation

**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

No. of inputs	1
UQC Input	1 The range is adjustable in the instrument menu on contact, TTL, 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 1/Fc period measurement TIME Timer
Time base	0.1 / 0.5 / 1 / 5 / 10 / 50 s
Multiplication constant	0.001...9999
Dividing 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	TIME
	99.59 hours / minutes	TIME
	23.59 hours / minutes	TIME
	59.59 minutes / seconds	TIME
	59.99 seconds / hundredths	TIME
	99.59 days / hours	TIME
Digit height	14 mm	
Display color	red or green	
Decimal point	adjustable - in menu	
Brightness	adjustable - in menu	

### INSTRUMENT SPECIFICATION

TC	50 ppm/°C
Accuracy	±0.05 % of value + 1 digit
Linearization	linear interpolation in 50 points <i>setup only via OM Link</i>
OM Link	company communication interface for operation, setting and update of instruments (microUSB)
Watch-dog	reset after 500 ms
Calibration	at 25°C and 40 % rh.

### POWER SUPPLY

Range	24 V DC/AC, ±10 %, PF ≥ 0.4, I <sub>typ</sub> < 45 A / 1 ms, 10...30 VDC / 24 VAC, ±10 %, PF ≥ 0.4, I <sub>typ</sub> < 45 A / 1 ms, isolated
Consumption	< 0.2 W / 0.2 VA

### MECHANIC PROPERTIES

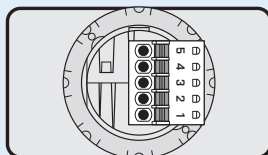
Material	PA66, incombustible UL 94 V-1, black
Dimensions	51.5 x 29.5 x 78 mm (w x h x d)
Panel cutout	∅ 22.5 mm

### OPERATING CONDITIONS

Connection	connector terminal blocks, section < 1.3 mm <sup>2</sup>
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	IP65, front panel only
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	700 VAC for 1 min. between power supply and input
Insulation resist.*	for pollution degree II, measuring cat. III power supply > 250 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



- 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	<b>0</b>	
	24 V AC/DC	<b>2</b>	
Display color	red		<b>1</b>
	green		<b>2</b>
Specification	customized version, do not fill in		<b>00</b>

Basic configuration of the instrument is indicated in bold.