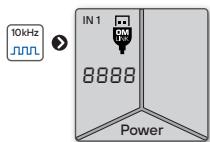




UNIVERSAL COUNTER



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.

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 The range is adjustable in the instrument menu
UQC Input	
on contact, TTL, NPN/PNP 0...30 V, comparation levels are adjustable in the menu	
Input frequency	
0.1 Hz...10 kHz	
Measuring mode	
COU: counter FREQ: frequency 1/F _r : 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 99.99 hours / minutes 23.59 hours / minutes 59.99 minutes / seconds 59.99 seconds / hundredths 99.99 days / hours	TIME TIME TIME TIME 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	±0.15 % of value
Linearization	linear interpolation in 50 points setup only via OM Link
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 % r.h.

POWER SUPPLY

Range	24 V DC/AC, ±10 %, PF ≥ 0.4, $I_{\text{sp}} < 45 \text{ A} / 1 \text{ ms}$, 10...30 VDC / 24 VAC, ±10 %, PF ≥ 0.4, $I_{\text{sp}} < 45 \text{ A} / 1 \text{ ms}$, isolated
Consumption	< 0.2 W / 0.2 VA

MECHANIC PROPERTIES

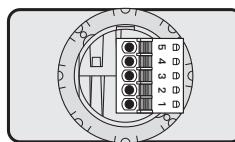
Material	PA66, incombustible UL 94 V-1, black
Dimensions	51.5 x 29.5 x 78 mm (w x h x d)
Panel cutout	Ø 22.5 mm

OPERATING CONDITIONS

Connection	connector terminal blocks, section < 1.3 mm ²
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 (P)
EMC	EN 61326-1:2021, Industrial area
RoHS	EN IEC 63000:2018
Seismic qualification	IEC/IEEE 60960-344 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 2

ORDER CODE

OMM 335UC

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Power supply	10...30 V AC/DC	0	2	<input type="checkbox"/>
Display color	red green	1	2	<input type="checkbox"/>
Specification	customized version, do not fill in	00	00	<input type="checkbox"/>

Basic configuration of the instrument is indicated in bold.