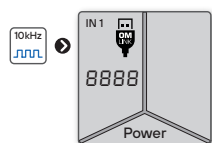




- 4-digit programmable projection
- Counter/frequency/clock/timer
- 0.1 Hz...10 kHz
- Digital filters, Linearization
- Size of 51.5 x 29.5 mm, Ø 22 mm
- Power supply 10...30 VDC/24 VAC

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

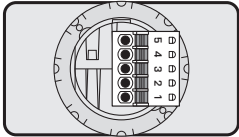
1/Fr.: filter to convert frequency to time
Input filter: passes the input signal up to 1...1 000 Hz

TECHNICAL DATA

INPUT		PROJECTION		POWER SUPPLY	
No. of inputs	1	Display	-999...9999, single color 7-segment LED	Range	24 V DC/AC, ±10 %, PF ≥ 0,4, I _{LTP} < 45 A / 1 ms, 10...30 VDC / 24 VAC, ±10 %, PF ≥ 0,4, I _{LTP} < 45 A / 1 ms, isolated
UQC Input	on contact, TTL, NPN/PNP 0...30 V, comparison levels are adjustable in the menu		99 59 hours / minutes TIME 23 59 hours / minutes TIME 59 59 minutes / seconds TIME 59 59 seconds / hundredths TIME 99 59 days / hours TIME		Consumption
Input frequency	0.1 Hz...10 kHz		Digit height	MECHANIC PROPERTIES	
Measuring mode	COU counter FREQ frequency 1/Fc period measurement TIME Timer		Display color	Material	PA66, incombustible UL 94 V-1, black
Time base	0.1 / 0.5 / 1 / 5 / 10 / 50 s		Decimal point	Dimensions	51.5 x 29.5 x 78 mm (w x h x d)
Multiplication constant	0.001...9999	INSTRUMENT SPECIFICATION		Panel cutout	Ø 22.5 mm
Dividing constant	0.001...9999	TC	50 ppm/°C	OPERATING CONDITIONS	
Preset	0...9999	Accuracy	±0.15 % of value	Connection	connector terminal blocks, section < 1.3 mm²
Input filter	0 / 1 / 10 / 45 / 55 / 65 / 100 / 1000 Hz	Linearization	linear interpolation in 50 points <i>setup only via OM Link</i>	Stabilization period	within 5 minutes after switch-on
Functions	Preset	OM Link	company communication interface for operation, setting and update of instruments (microUSB)	Working temperat.	-20°...60°C
		Watch-dog	reset after 500 ms	Storage temperat.	-20°...85°C
		Calibration	at 25°C and 40 % rh.	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 61326-1:2021, Industrial area
				RoHS	EN IEC 63000:2018
				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 - -

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

Basic configuration of the instrument is indicated in bold.