

Data Sheet
OM 335UQC

Distributed by



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UNIVERSAL COUNTER

- 4-DIGIT PROGRAMMABLE PROJECTION
- COUNTER/FREQUENCY/CLOCK/TIMER
- 0,1 Hz...10 kHz
- DIGITAL FILTERS, LINEARIZATION
- SIZE OF DIN 50,5 X 28,5 MM
- POWER SUPPLY 10...30 V DC/24 VAC

OMM 335UQC

OMLINK

Type OM 335UQC 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.

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

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

NEW

TECHNICAL DATA

INPUT

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	
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. constant	0,001...9999	
Preset	0...9999	
Input filter	0/1/10/45/65/100/1000 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

TK: 50 ppm/°C

Accuracy: ±0,05 % of value + 1 digit

Overload capacity: 2x

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

DM 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, $I_{SP} < 45$ A/11 ms

10...30 VDC/24 VAC, ±10 %, PF ≥ 0,4, $I_{SP} < 45$ A/11 ms, isolated

Consumption: < 0,2 W/0,2 VA

MECHANIC PROPERTIES

Material: PA66, incombustible UL 94 V-1

Dimensions: 50,5 x 28,5 x 66 mm [w x h x d]

Panel cutout: ∅ 22,5 mm

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 1,3 mm²

Stabilization period: within 15 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

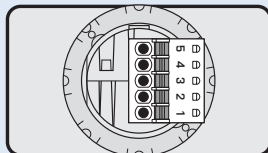
Insulation resistance: for pollution degree II, measuring cat. II.

power supply > 250 V [PI]

EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION



- 5 GND
- 4 Input A
- 3 Input C
- 2 Power
- 1 GND

ORDER CODE

OMM 335UQC

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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.