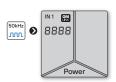
OMM 323UQC



UNIVERSAL COUNTER



OMM 323UQC



- 4-digit programmable projection
- Counter/frequency/clock/timer
- 0.1 Hz...50 kHz; UP/DW counter, IRC
- Digital filters, Tare, Linearization, Sum
- Size of DIN 48 x 24 mm
- Power supply 10...30 VDC/24 VAC

Type OM 323UQC is an inexpensive 4-digit universal panel counter/frequency meter/timer/clock, designed for maximum usefulness and user comfort while maintaining its fair price.

The instrument is based on a microcontroller, which ensure good accuracy, stability and easy operation of the instrument.

OPERATION

The instrument is controlled by four buttons situated under the front panel. All programmable settings of the instrument may be performed in three adjusting

LIGHT MENU is protected by optional number code and contains solely items necessary for instrument setting

PROFI MENU is protected by optional number code and contains complete instrument setting.

USER MENU may contain arbitrary items from the programming menu (LIGHT/ PROFI), which determine the right (see, change). Access w/o password.

Standard equipment is the OM Link interface, which together with operation program enables modification and filing of all instrument settings as well as performing firmware updates (with OML cable). The program is also designed for visualization and filing of measured values from more instruments.

All settings are stored in the EEPROM memory (settings hold even after the instrument is switched off).

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Input: NPN, PNP, on contact, IRC,

Setting: measuring mode counter/frequency/timer with adjustable calibration coefficient, time base and projection

Measuring modes: counter/frequency/UP-DW counter/frequency/counter for IRC Measur. channels: A and B, from one measuring input two independent functions may be evaluated (counter/frequency)

Time base: 0.5/1/5/10 s

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

Linearization: non-linear signal is converted by a 25-point linear interpolation

Tare: designed to reset display upon non-zero input signal

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

Current value: one-off setting of the initial value Summation: registration of figures upon shift operation

DIGITAL FILTERS

Exponential average: from 2...100 measurements

1/Fr.: filter to convert frequency to time

Rounding: setting the projection step for display Input filter: passes the input signal up to 5...1 000 Hz

EXTERNAL CONTROL

Hold: display/instrument blocking Lock: control keys blocking Resetting: counter resetting Start/Stop: timer/clock control Sum: projection/resetting

Projection: counter/frequency measurement

TECHNICAL DATA

INPUT	•				
No. of inputs		1 The range is adjustable in the instrument menu			
UQC	Input	on contact, TTL, NPN/PNP 060 V, comparation levels are adjustable in the menu or automatic			
	Input frequency	0.1 Hz50 0.1 Hz20 0.1 Hz20 0.1 Hz20 0.1 Hz10	D kHz UP/DW D kHz UP-DW D kHz QUADR., frequency		
	Measuring mode	SINGLE QUADR UP/DW UP - DW	counter/frequency counter/frequency for IRC sensors UP/DW counter/frequency - measures on inputs A, B (direction) and can display numbers/frequency UP - DW counter/frequency - measures on inputs A (UP), B (DW) and can display numbers/frequency Timer		
	Time base	0.5/1/5	/10 s		
	Multiplication constant	0.00199	99		
	Dividing constant	0.0019999			
	Preset	09999			
	Input filter	0/5/40/	′100 / 1000 Hz		
	Functions	Preset Summatio One time	on setting of the initial value		

PROJECTION

TC

Accuracy Overload

Functions
Digital filters

Linearization

OM Link Watch-dog

Calibration

Display	-9999999, single color 7-segment LED		
	99.59 hours/minutes	TIMI	
	23.59 hours/minutes	TIMI	
	59.59 minutes / seconds	TIMI	
	99.59 minutes / seconds	TIMI	
Digit height	9.1 mm		
Display color	red or green		
Decimal point	adjustable - in menu		
Brightness	adjustable or automatically controllable		

50 ppm/°C ±0.05 % of value + 1 digit

Tare, data backup, Preset, Summation

company communication interface for operation, setting and update of instruments reset after 500 ms

exponential average, rounding linear interpolation in 25 points setup only via OM Link

at 25°C and 40 % r.h.

POWER SUPPLY

Range	1030 VDC / 24 VAC, ±10 %, PF ≥ 0.4, I _{STP} < 45 A / 1 ms, isolated		
Consumption	< 1 W / 1.1 VA		

MECHANIC PROPERTIES

	Material	Noryl GFN2 SE1, incombustible UL 94 V-I, black		
	Dimensions	48 x 24 x 72 mm (w x h x d)		
	Panel cutout	43.5 x 21.5 mm (w x h)		

OPERATING CONDITIONS

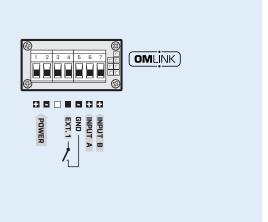
Connection	connector terminal blocks, section < 1.5 mm ²
Stabilization period	within 5 minutes after switch-on
Working temperat.	-20°60°C
Storage temperat.	-20°85°C
Working humidity	< 95 % r.v., non condensing
Protection	IP42, front panel only
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	2.5 kVAC for 1 min. between power supply and input
Insulation resist.*	for pollution degree II, measuring cat. III power supply > 300 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

EXTERNAL INPUT

EXTERNAL INFOT				
No. of inputs	1, on cont	on contact		
Function	OFF TARE HOLD CLEAR SUMA CLR.ST. CL.SUM. COUNT.	no function assigned tare activation measurement paused display reseting sum showing counter/timer reset and preset sum reset sum reset switching counter/frequency display		

CONNECTION



ORDER CODE

OMM 323UQC					
Power supply	1030 VDC/24 VAC	0			
	1030 VDC/24 VAC, isolated	1			
Display color	red		1		
	green		2		
Specification	customized version, do not fill in			00	

Basic configuration of the instrument is indicated in bold.