OMM 323UQC



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.

յեղումեսիսերիկ

The instrument is based on a single-chip microcontroller and an A/D converter, which ensure good accuracy, stability and easy operation of the instrument.



UNIVERSAL COUNTER

- 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

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 modes:

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).

OMM 323UQC UNIVERSAL COUNTER

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 meter/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

FUNCTIONS

Linearization: non-linear signals can be linearized by the means of a linearization table (up to 25 points)

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...1000 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 أأتتاك

INPU'	NPUT					
Numb	er of inputs	1				
UQC	Input	optional in configuration menu on contact, TTL, NPN/PNP 060 V, comparation levels are adjustable in the menu or automatic				
	Input freq.	0,1 Hz50 kHz (Mode SINGLE) 0,1 Hz20 kHz (Mode UP/DW) 0,1 Hz20 kHz (Mode UP-DW) 0,1 Hz20 kHz (Mode QUADR frequency) 0,1 Hz10 kHz (Mode QUADR counter) (for duty cycle 50 %)				
	Measuring mode	SINGLE QUADR 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	UP - DW counter/frequency - measures on inputs A (UP), B (DW) and can display numbers/frequency			
		TIME	Timer			
	Time base Calibration constant	0.5/1/5/10 s 0.0019999				
	Preset	09999				
	Input filter	0/5/40/100/1000 Hz				
	Functions	Preset Summation One time setting of the initial value				
External input		1 input, on contact				
		The follo OFF LOCK.K HOLD TARE CLEAR SUMA CLR.ST. CL.SUM. COUNT.	wing functions can be assigned: input off control keys blocking display stop tare activation display reset sum showing counter/timer reset and preset sum reset switching counter/frequency display			

PROJECTION
Display: -9999999, single color 7-segment LED
Digit height: 9,1mm
Display color: red or green
Decimal point: adjustable - in menu
Brightness: adjustable or automatically controllable
INSTRUMENT ACCURACY
TC: 50 ppm/°C
Accuracy: ±0,05% of value + 1 digit
±0,01% of value ±2ms (timer)
±0,01% of value ±130ms (RTC)
Overload capacity: 2x; 10x (t < 30 ms)
Watch-dog: reset after 500 ms
Digital filters: exponential average, rounding
Functions: data backup, Preset, Summation
Input filters: filtration constant, rounding
OM Link: company communication interface for operation, setting and
update of instruments
Calibration: at 25°C and 40 % r.h.
POWER SUPPLY
Range: 1030 VDC/24 VAC, ±10 %, PF≥0,4, I errs< 45 A/1,1 ms
1030 VDC/24 VAC, ±10 %, PF≥ 0,4, I errs< 45 A/1,1 ms, isolated
Consumption: <1W/I.1VA
MECHANIC PROPERTIES
Material: Noryl GFN2 SE1, incombustible UL 94 V-I
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
Operations and the territed blocks and the state

յուրունունը, դիսպոսին, ուրեն, որոնն, հետությունն,

Connection: connector terminal blocks, section < 1.5 mm² Stabilization period: within 5 minutes after switch-on Working temperature: -20*...60*C Storage temperature: -20*...85*C Protection: IP42 (front panel only) El. safety: EN 61010-1, A2 Dielectric strength: 2.5 kVAC per 1 min test between supply and input Insulation resistance: for pollution degree II, measuring cat. III power supply > 300 V (PI) EMC: EN 61326-1

CONNECTION

		OMLINK
POWER	EI INPUT B GND	

PI - Primary insulation, DI - Double insulation

պեսկե

a. h

יוייוי

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

Basic configuration of the instrument is indicated in bold.