OMM 323UQC



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OMLINK

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 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 х 24 мм
- POWER SUPPLY 10...30 VDC/24 VAC

OMM 323UQC UNIVERSAL COUNTER

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).

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION Input: NPN, PNP, on contact, IRC,

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

Measur. 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: through linear interpolation in 25 points (solely via OM Link) 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

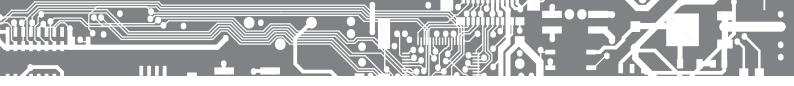
Summation: registration of figures upon shift operation

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	r			
uọc I	Input	optional in configuration menu on contact, TTL, NPV/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 %)		
	Measur. mode	SINGLE QUADR UP/DW UP - DW	counter/frequency counter/freq, meter for IRC sensors UP/DW counter/freq, meter - 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	0,5/1/5/10 s		
	base			
	Calibr. constant	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 The follow OFF LOCKK HOLD TARE CLEAR SUMA CLR.ST. CL.SUM. COUNT.	contact ing 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: -999...9999, 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 TK: 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:
 10...30 VDC/24 VAC, ±10 %, PF≥0,4, l_{stp}< 45 A/1,1 ms</td>

 10...30 VDC/24 VAC, ±10 %, PF≥0,4, l_{stp}< 45 A/1,1 ms, isolated</th>
 Consumption: <1 W/1,1 VA</td>

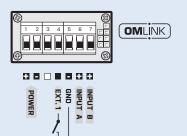
MECHANIC PROPERTIES

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

UPERATING CONDITIONS
Connection: connector terminal blocks, section < 1,5 mm²
Stabilization period: within 15 minutes after switch-on
Working temperature: -20°...86°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 EMC: EN 61326-1

CONNECTION



PI - Primary insulation, DI - Double insulation

ORDER CODE OMM 323UQC -[٦-٢ 10...30 VDC/24 VAC 0 Power supply 10...30 VDC/24 VAC, isolated 1 Display color 1 red green

Specification customized version, do not fill in



Basic configuration of the instrument is indicated in bold.