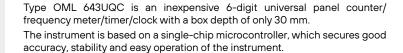
OML 643UQC

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որեվերուներերինը



UNIVERSAL COUNTER

- 6-digit programmable projection
- Counter/Frequency/Clock/Timer
- 0,1 Hz...50 kHz; UP/DW counter, IRC
- Digital filters, Tare, Linearization, Sum
- Size of DIN 96 x 48 mm
- Power supply 10...30 VDC/24 VAC
- Option Comparators • Time backup

OML 643UQC UNIVERSAL COUNTER

OPERATION

The instrument is set and controlled by five buttons accessible from the rear. 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).

OPTION

COMPARATOR is assigned to monitor one limit value with relay output. The limits have adjustable hysteresis within the full range of the display as well as selectable delay of the switch-on in the range of 0...99,9 s. Reaching the preset limits is signalled by LED and simultaneously by the switch-on of the relevant relay.

TIME BACKUP is suitable where time needs to be measured even in case of voltage supply outage (upon power supply outage the instrument does not display).

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Selection: measuring mode Setting: Measuring mode counter/frequency/timer/clock 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, two independent functions (number/frequency) can be evaluated from one measuring input

Projection: -99999...999999 with stabile or floating DT in 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

Time backup: time is running even when the power supply is turned off (the display is off)

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

input inter, passes the input signal up to 5....

EXTERNAL CONTROL

Hold: display/instrument blocking Lock: control keys blocking Resetting: counter resetting Start/Stop: timer/clock control Magnet: operation of preselected functions 11

INPU	r						
Numb	er of inputs	1					
UQC	Input	optional in configuration menu on contact, TTL, NPN/PNP 030 V, comparation levels are adjustable in the menu or automatic					
	Input frequency	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 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				
		TIME	Timer				
		RTC	Clock				
	Time base	0,5/1/5/10 s					
	Calibration constant	0,00001999999					
	Preset	0999999	9				
	Input filter	0/5/40/10	00/1000 Hz				
	Functions		on setting of the initial value kup (Timer/clock)				
External input		1 input, or	contact				
		OFF LOCK.K HOLD TARE CLEAR SUMA	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				
Magnet		right bottom corner of the display, in menu you can set the same magnet functions as those for external input					

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PROJECTION Display: -999999...999999, single color 7-segment LED Digit height: 14mm Display color: red or green Decimal point: adjustable - in menu Brightness: adjustable or automatically controllable INSTRUMENT ACCURACY TC: 50 ppm/°C Accuracy: ±0,02% of value + 1 digit ±0,02% of value ±2 ms (timer) ±0,02% of value ±130 ms (RTC) Overload capacity: 2x; 10x (t < 30 ms) Watch-dog: reset after 500 ms Digital filters: exponential average, rounding, input filter Functions: data backup, Time backup, Preset, Summation, Tare Time backup: Lithium cell CR 2032, 3V/220 mAh OM Link: company communication interface for operation, setting and update of instruments Calibration: at 25°C and 40 % r.h. COMPARATOR Type: digital, menu adjustable, contact switch-on < 50 ms Hysteresis mode: switching limit, hysteresis band (Lim and $\pm 1/2$ Hys.) and time (± 99.9 s) determining the switching delay Mode C-Puls (L1) - automatic counter resetting at the set value Mode Once (L2) - switching limit, which will switch off only after the counter has been reset Output: 1x Form A relay (250 VAC/30 VDC, 3 A); 1x open collector (30 VDC/100 mA)

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POWER SUPPLY

 $\begin{array}{l} \textbf{Range: 10...30 VDC/24 VAC, \pm10 \%, PF \ge 0.4, I_{STP} < 45 A/1,1 ms} \\ \textbf{10...30 VDC/24 VAC, \pm10 \%, PF \ge 0.4, I_{STP} < 45 A/1,1 ms, isolated \\ \textbf{Consumption: < 1,8 W/1,9 VA} \end{array}$

MECHANIC PROPERTIES

Material: Polycarbonate, incombustible UL 94 V-0 Dimensions: 96 x 48 x 30 mm (w x h x d) Panel cutout: 92 x 44 mm (w x h)

OPERATING CONDITIONS

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: IP65 (front panel only with a gasket) El. safety: EN 61010-1.A2 Dielectric strength: 2,5 kVAC per 1 min test between supply and input 4 kVAC per 1 min test between input and relay output Insulation resistance: for pollution degree II, measuring cat. III power supply > 300 V (PI) input, output > 300 V (DI) EMC: EN 61326-1

CONNECTION

	$\Theta \bullet \bullet \bullet \Theta$
off batteries	Control keys
3 4	5678
ц /	

ORDER CODE

OML 643UQ	-		L					-	
Power supply	1030	VDC/24 VAC	0						
	1030 VDC/24	VAC, isolated	1						
Comparator		no		0					
	1x	relay (Form A)		1					
	1x c	pen collector		2					
Time backup		no			0				
Only for Measuring mode "Time	yes			1					
Display color		red				1			
		green				2			
Gasket		no					0		
Silicone gasket between instrument and panel		yes					1		
Magnet		no						0	
For operation of external function	ons	yes						1	
Specification customized version, do not fill in									00

PI - Primary insulation, DI - Double insulation

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