OMM 650UC



OMM 650UC

(OMLINK)



The instrument is based on an 8-bit microcontroller, which ensures good accuracy, stability and easy operation of the instrument.



- 6-DIGIT PROGRAMMABLE PROJECTION
- COUNTER/FREQUENCY/TIMER/CLOCK
- DIGITAL FILTERS, LINEARIZATION
- SIZE OF DIN 72 x 24 MM
- POWER SUPPLY 10...30 V AC/DC

Option
 Comparators

OMM 650UC UNIVERSAL COUNTER

OPERATION

The instrument is set and controlled by four control keys located on the front panel. All programmable settings of the instrument may be performed in three adjusting modes:

 $\ensuremath{\text{LIGHT}}$ $\ensuremath{\text{MENU}}$ 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 perform firmware updates (with OML cable).

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

OPTION

COMPARATORS are assigned to monitor two limit values 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.

 $\ensuremath{\text{TIME BACKUP}}$ is suitable where time needs to be measured even in case of supply voltage outage (upon power supply outage the instrument does not display)

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Setting: measuring mode counter/frequency/timer/clock with adjustable calibration coefficient, time base and projection Projection: -99999...999999

LINEARIZATION

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

DIGITAL FILTERS

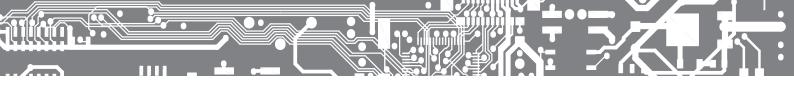
Exponential average: from 2...100 measurements Rounding: setting the projection step for display Filtration constant: transmits input signal up to 5...1 000 Hz

FUNCTIONS

Preset: initial non-zero value, which is always read after resetting the instrument to zero Setting current value: initial value, e.g. the amount currently passed-through

EXTERNAL CONTROL

Hold: display/instrument blocking Lock: control keys blocking Resetting: counter resetting Start/Stop: stopwatch/timer control



TECHNICAL DATA

PROJECTION Display: -99999...999999, red or green 7-segment LED, digit height 9,1mm Decimal point: setting - in menu Brightness: setting - in menu

INSTRUMENT ACCURACY

TK: 50 ppm/°C Accuracy: ±0,05% of value + 1 digit ±0,01% of value ±2ms (stopwatch) ±0,01% of value ±130ms (RTC) Overload capacity: 2x; 10x (t < 30 ms) - not for 300 V Watch-dog: reset after 500 ms Functions: 10L0, LOCK, Digital filters Functions: Data backup, Time backup, Preset Input filters: Filtration constant, Rounding Time base: 0,61//5/10/50 s Calibration constant: 0,0001...999999 Filtration constant: 0,0001...999999 Filtration constant: 0/5/40/100/1000 Hz PRESET: 0...999999 OM Link: Company communication interface for operation, setting and update of instruments Calibration: at 25°C and 40% r.h.

COMPARATORS

 Connection:
 contact switch-on < 50 ms</td>

 Limit:
 -99999...999999

 Hysteresis:
 0...99999

 Delay:
 0...99.9 s

 Output:
 2x bistable relays (48 VAC/30 VDC, 3 A)

 POWER SUPPLY
 10...30 VDC/24 VAC, max. 4 VA, PF≥0,4, I_{stp}< 45 A/1,1 ms, isolated</td>

 MECHANICAL PROPERTIES

 Material:
 Nor/I GFN2 SE1, incombustible UL 94 V-1

 Dimensions:
 72 x 24 x 106 mm

 Penel cutout:
 68 x 21.5 mm

 OPERATING CONDITIONS
 Connection: connector terminal board, section < 1,5/2,5 mm²</td>

 Stabilization period:
 within 15 minutes after switch-on

 Working temperature:
 -20°...80°C

 Cover:
 IP42 (front panel only)

 EI. safety: EN 61010-1, A2
 Dielectric strength:

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 2,5 KVAC after 1 min between supply and input

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 2,6 KVAC
 300 V (21), 150 V (D)

 EMC:
 EN 61326-1

Seismic capacity: IEC 980: 1993, par. 6

menu

PI - Primary insulation, DI - Double insulation

MEASURING RANGES

OMM 650 is a multifunction instrument available in following types

UC:	030/300 V, comparation levels are adjustable in the r
	input frequency 0,02 Hz50 kHz

Measuring modes

DINGLE	Courrer/Frequencymerer
UP/DW	UP/DW Counter/Frequencymeter
	- used in inputs A, B (direction) and can display count/frequence
TIME	Stopwatch
RTC	Timer

CONNECTION

	6 7 8 9 10 11 12 13
POWER SUPPLY	

ORDER CODE

Power supply	1030 V AC/DC, isolated	0			
Comparators	no		0		
	1x relay (Form A)		1		
	2x relays (Form A)		2		
	1x open collector		з		
	2x open collectors		4		
Time backup	no			0	
Only for measuring mode "Watch"	yes			1	
Display color	red				1
	green				2
Other cu	stomer version, do not fill in				