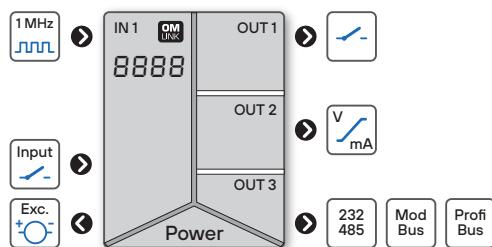




UNIVERSAL LARGE COUNTER



OPERATION

The instrument is set and controlled by an IR remote control. 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).

The measured units can be displayed on the 6-digit display.

OPTION

EXCITATION for feeding sensors and transmitters. It is continuously adjustable in the range of 5...24 VDC.

COMPARATORS are assigned to monitor 1 - 4 limit values with relay output. As a user you can select the mode limit: LIMIT/BATCH/FROM-TO. 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.

DATA OUTPUTS are for their rate and accuracy suitable for transmission of the measured data for further projection or directly into the control systems. We offer an isolated RS232 and RS485 with the ASCII/PROFIBUS protocols.

ANALOG OUTPUTS will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer universal analog output with the option of selection of the type of output - voltage/current. The value of analog output corresponds with the displayed data. Its type and range are selectable in menu.

OMD 202UQC

- 4/6-digit programmable projection
- Counter/Frequency/Clock/Timer
- Three-color or highly luminous LED
- Digit height 57; 100; 125 mm, IR operation
- Digital filters, Tare, Linearization
- Power supply 10...30 V AC/DC; 80...250 V AC/DC

Option

Excitation ● Comparators ● Data output ● Analog output

The OMD 202 model series are large programmable displays for indoor and outdoor use with IP64 protection.

Type OMD 202UQC is universal 6-digit two-channel programmable panel impulse counter/frequency meter/signal evaluation from IRC sensors and timer/clock.

The instrument is based on a single-chip microcontroller and a powerful programmable gate array, which secures high accuracy, stability and easy operation of the instrument.

Displays are suitable for projection of measured data in production lines and manufacture with good legibility up to 80 m.

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Input: NPN, PNP, on contact, IRC, line

Measuring modes: counter/frequency meter/UP-DW counter + frequency/counter for IRC + frequency

Calibration: in menu you can set calibration coefficient, time base and projection

Measur. channels: A and B, two independent functions can be evaluated

Time base: 0.05/0.5/1/2/5/10/20 s /1/2/5/10/15 min

Projection: -999...9999/-99999...999999 with stable or floating DT in format 10/24/60

FUNCTIONS

Linearization: non-linear signal is converted by a 50-point linear interpolation

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

Min./max. value: registration of min./max. value reached during measurement

Peak value: the display shows only max. or min. value

Mathemat. operations: polynom, 1/x, logarithm, exponential, power, root, sin x and operations between inputs

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

Input filter: transmits input signal up to 1 MHz...10 min

Floating/Exp./Arithm. average: from 2...30/100/100 measurements

Rounding: setting the projection step for display

EXTERNAL CONTROL

Lock: control keys blocking

Hold: display/instrument blocking

Tare: tare activation

Resetting Min/Max: resetting min./max. value

Resetting: counter resetting

Start/Stop: timer/clock control

TECHNICAL DATA

INPUT		PROJECTION		RELAYS OUTPUT		POWER SUPPLY	
No. of inputs	1 The range is adjustable in the instrument menu	Display	.999...9999 .99999...99999 99.59.59 hours/minutes/seconds 23.59.59 hours/minutes/seconds 9999.59 hours/minutes 9999.99 minute/seconds 59.59.99 minute/seconds/hundredths 99.59.99 minute/seconds/hundredths 99.59.9 hours/min./seconds/hundredths 99.59.9 days/hours/minutes/seconds 9923.59 days/hours/minutes	TIME TIME TIME TIME TIME TIME TIME TIME TIME TIME	No. of outputs up to 4 Type digital, menu adjustable Mode HYSTER. active above set value WINDOW active in the set window / band BATCH active in set period C-PULS automatic counter resetting at the set value ON RUN output is active when the timer is running	Range 10...30 V AC/DC, $\pm 10\%$, $PF \geq 0.4$, $I_{\text{STP}} < 40 A/1\text{ms}$, isolated 80...250 V AC/DC, $\pm 10\%$, $PF \geq 0.4$, $I_{\text{STP}} < 40 A/1\text{ms}$, isolated Protection by fuse inside the device	
UQC Input	on contact, TTL, NPN/PNP Line 0...30 V, comparation levels are adjustable in the menu					Consumption < 22 W/22 VA	
Input frequency	0.002 Hz...1 MHz 0.002 Hz...100 kHz 0.002 Hz...500 kHz	DUTY	QUADR., UP/DW				
Measuring mode	SINGLE counter/frequency A * B counter/frequency with function AND xNOR counter/frequency with function NOR DUTY duty cycle measurement QUADR. counter/frequency for IRC sensors UP/DW 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 RTC Clock						
Time base	0.05/1/2/3/5/10/20 s 1/2/5/10 min						
Multiplication constant	0.00001...999999						
Dividing constant	0.00001...999999						
Preset	.99999...999999						
Input filter	off 1/10/100/250/1000 kHz 1/10/45/55/65/100 Hz 2/5/10 s 1/10 min						
Functions	Offset Tare Preset Summation Min/Max value Peak value One time setting of the initial value Time backup (TIME / RTC) Mathematic functions between channels						
EXTERNAL INPUT							
No. of inputs	3, on contact						
Function	No function assigned Activation of Tare Reset of Tare Measurement paused Resetting min/max value Resetting and preset of counter/clock Sum showing Sum reset Value display „Channel A“ Value display „Channel A“ + filter Value display „Math. functions“						
DIMENSIONS							
Front view					ORDER CODE		
Panel cut					OMD 202UQC		
Side view					OMD 202UQC		
Panel thickness: 0,5...50 mm				OMD 202UQC			
Height X mm Y mm				OMD 202UQC			
X1 mm Y1 mm				OMD 202UQC			
Height X Y X1 Y1				OMD 202UQC			
57-6 375 119 367 111				OMD 202UQC			
100-4 465 181 457 173				OMD 202UQC			
100-6 651 181 643 173				OMD 202UQC			
125-4 539 237 531 228				OMD 202UQC			
125-6 764 237 746 228				OMD 202UQC			

Basic configuration of the instrument is indicated in bold.