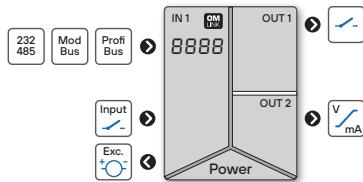




DATA LARGE DISPLAY



- 4/6-digit programmable projection
- Input RS 232/485
- ASCII, PROFIBUS DP, PROFINET, Modbus RTU
- Three-color or highly luminous LED
- Digit height 57; 100; 125 mm, IR operation
- 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 a data display from serial lines RS 232/485 with protocol ASCII, MESSBUS, Modbus RTU, PROFIBUS DP and PROFINET. The instrument is based on a single-chip microcontroller, which secures 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.

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.

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Input: both RS 232 and RS 485

Protocol: ASCII - Master/Slave/Universal, MESSBUS, PROFIBUS DP, Modbus RTU

Projection: -999...9999/-99999...99999

MATHEMATIC 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

DIGITAL FILTERS

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

Rounding: setting the projection step for display

EXTERNAL CONTROL

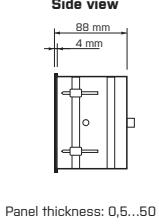
Lock: control keys blocking

Hold: display/instrument blocking

Tare: tare activation

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

TECHNICAL DATA

INPUT		PROJECTION		RELAYS OUTPUT		POWER SUPPLY																																																																									
No. of inputs	1	Display	.999...9999 .99999...99999	No. of outputs	up to 4	Range	10...30 V AC/DC, $\pm 10\%$, $PF \geq 0.4$, $I_{STP} < 40 A / 1 ms$, isolated																																																																								
RS Input	RS 232/RS 485 PROFIBUS	Digit height	57 mm 100 mm 125 mm	Type	digital, menu adjustable		80...250 V AC/DC, $\pm 10\%$, $PF \geq 0.4$, $I_{STP} < 40 A / 1 ms$, isolated																																																																								
Protocol	ASCII - Master - the instrument controls data sending from the slave system - „COMM“ can be used to select the received data - the instrument asks with the rate of 10 queries/s	Display color	red or green with high brightness 1200 mcd red / green / orange	Mode	HYSSTER. active above set value WINDOW active in the set window / band BATCH active in set period		Protection by fuse inside the device																																																																								
ASCII - Slave	- Passive bus display where other devices or computers communicate in „MASTER“ mode. If the „COMM“ and the requested data are correctly received, they will be displayed by the instrument	Description	last two characters on the display may be used for description of measured quantities only for 6-digit display	Function Relays/OC	CLOSE is closed in active mode OPEN is open in active mode																																																																										
ASCII - Universal	- in dynamic menu items (Stat, Ad.Un, Sign, Data, Stop, Req.) you can build your own communication protocol format	Decimal point	adjustable - in menu	Limits	-99999...99999																																																																										
MESSBUS		Brightness	adjustable - in menu	Hysteresis	0...99999																																																																										
Modbus RTU				Delay	0...99.9 s																																																																										
PROFIBUS DP				Outputs	1...4x relay with switch-on contact (Form A) (250 VAC/30 VDC, 3 A)*																																																																										
PROFINET				Relays	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot.Duty D300																																																																										
Format	8 bit + no parity + 1 stop bit 7 bit + even parity + 1 stop bit	TC	50 ppm/°C	* values apply for resistance load																																																																											
Adresse	ASCII 0...31 Modbus 1...247 PROFIBUS 1...127	Functions	Min/max value, math. functions																																																																												
Rate	300...230 400 Baud 9 600 Baud...12 Mbaud (PROFIBUS)	Digital filters	exponential / floating / arithmetic average, rounding																																																																												
Line termination	short-circuit jumper on the connector resistance inside the instrument is 120 R	Math functions	polynomial / inverse polynomial / logarithm / exponential / power / root																																																																												
		OM Link	company communication interface for operation, setting and update of instruments																																																																												
		Watch-dog	reset after 500 ms																																																																												
		Calibration	at 25°C and 40 % r.h.																																																																												
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DIMENSIONS

Front view		Side view		Panel cut	
X mm		88 mm	4 mm	X1 mm	
Y mm				Y1 mm	
Panel thickness: 0.5...50 mm					
Height	X	Y	X1	Y1	
57-6	375	119	367	111	
100-4	465	181	457	173	
100-6	651	181	643	173	
125-4	539	237	531	228	
125-6	764	237	746	228	

Basic configuration of the instrument is indicated in bold.