



- 6-DIGIT PROGRAMMABLE PROJECTION
- SIZE OF DIN 96 x 48 mm
- POWER SUPPLY 80...250 V AC/DC
- Option
 - Excitation • Comparators • Data output • Analog output
 - Three-color display - 20 mm • Power supply 10...30 V AC/DC

OPERATION

The instrument is set and controlled by five control keys located on 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 perform 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 (they hold even after the instrument is switched off). The measured units may be projected on the display.

OPTION

EXCITATION is suitable for feeding of sensors and transmitters. It is isolated, with continuously adjustable value in the range of 5...24 VDC.

COMPARATORS are assigned to monitor one, two, three or four limit values with relay output. The user may select limits regime: LIMIT/DOSING/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/MESSBUS/MODBUS/PROFIBUS protocol.

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 and its type and range are selectable in menu.

OM 602

OMLINK

The OM 602RS model is a 6-digit panel display device for projection of data from serial lines RS 232/485.

The OM 602AV is a programmable analog output.

The instrument is based on an 8-bit processor that secures high accuracy, stability and easy operation of the instrument.

OM 602RS

DATA DISPLAY RS 232/485

OM 602AV

PROGRAMMABLE OUTPUT

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Input (RS): optional RS 232 or RS 485, with protocols ASCII, MESSBUS, PROFIBUS, MODBUS - RTU

Projection: -99999...999999 with fixed or floating DP

Setting (AO): optional projection may be set for both limit values of the AO range in „CM“

DIGITAL FILTERS

Exponen. average: from 2...255 measurements

„n“ value: from 2...100 measurements

Rounding: setting the projection step for display

FUNCTIONS

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

Mat. operations: polynome, 1/x, logarithm, exponential, power, root, sin x

Type of output signal (AV): sinus/saw/triangle/rectangle/random functions (selected by control keys or on inputs 1 and 2)

EXTERNAL CONTROL

Hold: display/instrument blocking

Lock: control keys blocking

Resetting MM: resetting min/max value

Functions: control of optional functions from instrument menu

TECHNICAL DATA

PROJECTION

Display: 999999, red or green 14-segment LED, digit height 14 mm, 9999, red/green/orange 7-segment LED, digit height 20 mm
Decimal point: setting - in menu
Brightness: setting - in menu

INSTRUMENT ACCURACY

Input filters: Filtration constant, Rounding
Functions: HOLD, LOCK, Digital filters, Tare
DM Link: Company communication interface for operation, setting and update of instruments
Calibration: at 25°C and 40% r.h.

COMPARATOR

Type: digital, setting in menu, contact switch < 30 ms
Limits: -99999...999999
Hysteresis: 0...999999
Delay: 0...99,9 s
Output: 2x relays Form A (250 VAC/30 VDC, 3 A) and 2x Form C relays (250 VAC/50 VDC, 3 A), 2x/4x open collectors, 2x SSR, 2x bistable relays

DATA OUTPUT

Protocol: ASCII, MESSBUS, MODBUS - RTU, PROFIBUS
Data format: 8 bit + no parity + 1 stop bit (ASCII)
 7 bit + even parity + 1 stop bit (Messbus)
Rate: 600...230 400 Baud
 9 600 Baud...12 Mbaud (PROFIBUS)
RS 232: isolated
RS 485: isolated, addressing (max. 31 instruments)

ANALOG OUTPUT

Type: isolated, programmable with 16-bit D/A converter, type and range are selectable in programming mode
Non-linearity: 0,1% of range
TK: 15 ppm/°C
Rate: response to change of value < 1 ms
Ranges: 0...2,5/10 V, ±10 V, 0...5 mA, 0/4...20 mA [comp. < 600 Ω/12 V or 1 000 Ω/24 V]

EXCITATION

Adjustable: 5...24 VDC/max. 1,2 W

POWER SUPPLY

10...30 V AC/DC, ±10%, max. 13,5 VA, PF≥0,4, I_{3TP}< 40 A/1 ms
 80...250 V AC/DC, ±10%, max. 13,5 VA, PF≥0,4, I_{3TP}< 40 A/1 ms
 Power supply is protected by a fuse inside the instrument

MECHANIC PROPERTIES

Material: Noryl GFN2 SE1, incombustible UL 94 V-1
Dimensions: 96 x 48 x 120 mm
Panel cutout: 90,5 x 45 mm

OPERATING CONDITIONS

Connection: connector terminal board, section < 1,5/2,5 mm²
Stabilization period: within 15 minutes after switch-on
Working temperature: -20°...60°C
Storage temperature: -20°...85°C
Cover: IP64 (front panel only)
El. safety: EN 61010-1, A2
Dielectric strength: 4 kVAC after 1 min between supply and input
 4 kVAC after 1 min between supply and data/analog output
 4 kVAC after 1 min between supply and relay output
 2,5 kVAC after 1 min between input and data/analog output
Insulation resistance: for pollution degree II, measuring cat. III.
 Power supply > 670 V [Z], 300 V [DI]
 input, output, Exc. > 300 V [Z], 150 V [DI]
EMC: EN 61326-1
Seismic capacity: IEC 980: 1993, par. 6
SW validation (AV): Class B, C in compliance with IEC 62138, 61226

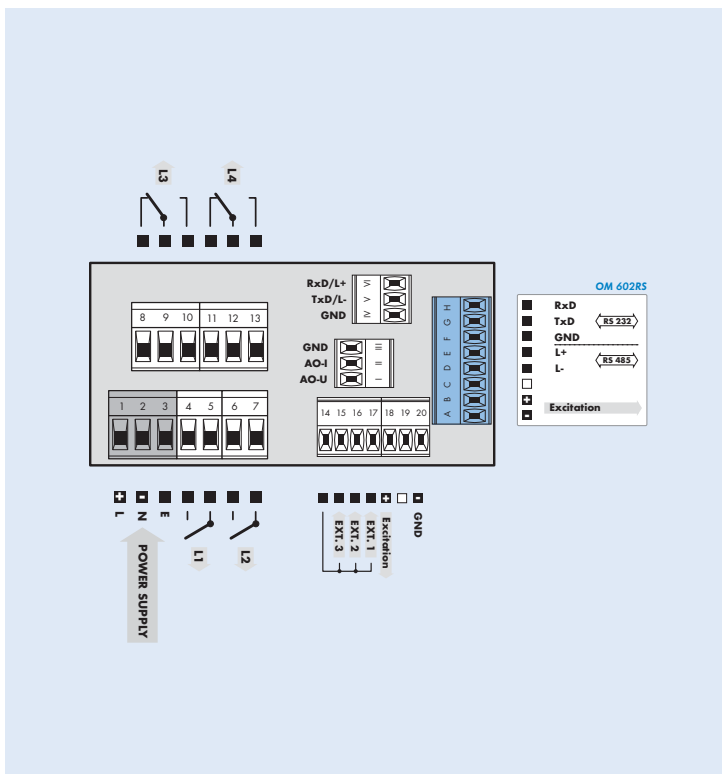
PI - Primary insulation, DI - Double insulation

MEASURING RANGES

ORDER CODE SPECIFICATION

	AV	RS
W/D	Programmable analog output	
A		ASCII/MESSBUS
B		MODBUS - RTU
C		PROFIBUS
Z	on request	on request

CONNECTION



ORDER CODE

OM 602		[] - [] - []									
Type		R	S
Order code shall not include blank spaces!											
Power supply	10...30 V AC/DC 80...250 V AC/DC	0	1								
Option, see table „Order code specification“			?								
Comparators	none 1x relay [Form A] 2x relays [Form A] 3x relays [2x Form A + 1x Form C] 4x relays [2x Form A + 2x Form C] 2x open collectors 4x open collectors 2x open collectors + 2x relays [Form C] 2x relays [Form C] 2x SSR 2x bistabil relays 1x relay [Form C]	0	1	2	3	4	5	6	7	8	9
Data output	none RS 232 RS 485 MODBUS PROFIBUS	0	1	2	3	4					
Analog output	no yes [Compensation < 600 Ω/12 V] yes [Compensation < 1 000 Ω/24 V]	0	1	2							
Excitation	no yes								0	1	
Display color	red (14 mm) green (14 mm) red/green (20 mm)										1 2 3
Other	customer version, do not fill in SW validation - IEC 62138, IEC 61226										00 VS

Default execution is shown in bold

* Launch for sale has not been set