OM 601RS

2003 - 3 - en

- **6 digit projection**
- **RS 232 / RS 485**
- **Secondary display for OM instruments**
- **Size of DIN 96 x 48 mm**
- **Power supply 230 VAC**

Options
Comparators • Excitation • Analog output • Power supply: 24 VAC, 110 VAC, 10...30 VDC

Description

The OM 601RS model is a 6 digit panel display device for projection of data from serial lines RS 232 and RS 485. Communication is performed with ASCII protocol or DIN Messbus protocol.
The instrument is based on an 8-bit processor that secures high accuracy, stability and easy operation of the instrument.
The display may show all ASCII characters applicable for a 14-segment display.

Operation

The instrument is set and controlled by five control keys located on the front panel. All programmable settings of the instrument are realised in two adjusting modes.

Configuration menu	(hereinafter referred to as CM) is protected by an optional number code and contains complete instrument setting
User menu	may contain arbitrary programming settings defined in „CM" with another selective restriction (see, change)

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

Options

Excitation is suitable for feeding of sensors and transmitters. It has a galvanic isolation with continuously adjustable value in the range of 2...24 VDC.
Comparators are assigned to monitor one or two limit values with relay output. Limits have adjustable hysteresis and delay. Reaching the set limits is signalled by LED and at the same time by the switch-on of the relevant relay.
Analog outputs will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer several types of current and voltage isolated outputs, selectable by a shorting link. Tha analog output value corresponds with the displayed data and its range is selectable in CM.

Technical data

INPUT

Protocols:	RS 232/485 ASCII DIN Messbus
Data format:	rate 150...115 200 Baud 7 bit + even parity + 1 stop bit (DIN Messbus) 8 bit + no parity + 1 stop bit (ASCII) secondary dispaly for OM instruments

PROJECTION

Display:	999999, red or green 14-segment LED, digit height 14 mm
Decimal point:	according to input data
Brightness:	adjustable - in Configuration/User menu
Watch-dog:	reset after 1,2 s
Calibration:	at 25°C and 40 % r.h.

COMPARATOR

Type:	digital, adjustable in programming mode, contact switch-on < 30 ms
Limit 1 and 2	0...999999
Hysteresis:	0...99999
Delay:	0...99,9 s
Outputs:	2 relays with switch-on (switch-off) contact (250 VAC/30 VDC, 3 A) - the relay function is adjustable in Configuration menu *upon request SSR (250 VAC, 1 A) or open collector may be fitted*

ANALOG OUTPUTS

Type:	isolated, programmable with resolution max. 10 000 points, analog output corresponds with the displayed data, output type and range are selectable in CM
Non-linearity:	0,2 % of range
Tempco:	100 ppm/°C
Rate:	response to change of value < 40 ms
Voltage:	0...2 V/5 V/10 V
Current:	0...5 mA/0/4...20 mA (compensation of conduct up to 600 Ohm)

POWER SUPPLY

	24; 110; 230 VAC, 50/60 Hz, ±10 %, 5 VA 10...30 VDC/max. 500 mA, (24 VDC/110 mA), isolated

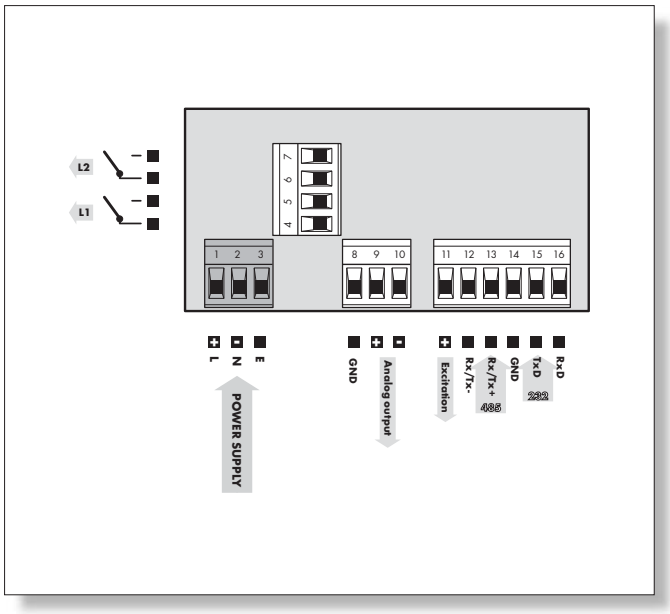
MECHANIC PROPERTIES

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

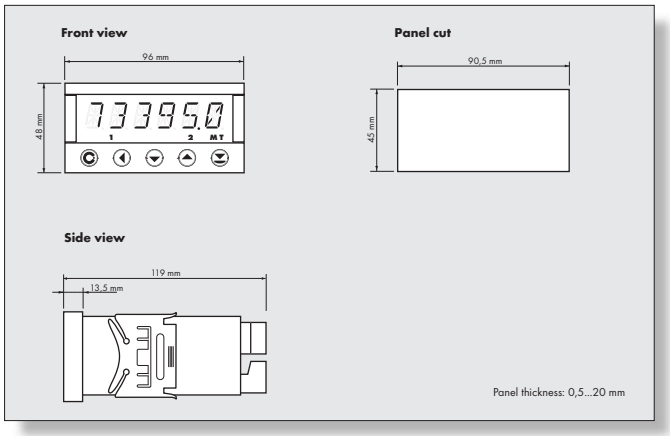
OPERATING CONDITIONS

Connection:	connector terminal board, conductor section up to 2,5 mm^2
Stabilization period:	within 15 minutes after switch-on
Working temperature:	0°...60°C
Storage temperature:	-10°...85°C
Covering:	IP65 (front panel only)
Overvoltage category:	EN 61010-1, A2, for pollution degree II III. - instrument power supply, relay outputs (300 V) II. - input, output, excitation (300 V)
EMC:	EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

Connection



Dimensions



Order code

OM 601RS - xxxxx

Power supply
0: 24 VAC/50 Hz
1: 230 VAC/50 Hz
3: 110 VAC/50 Hz
4: 10...30 VDC, isolated

Comparators
0: no
1: yes

Display color
1: red
2: green

Excitation
0: no
1: yes

Analog output
0: no
1: yes

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