

OM 601AV



2003-3-en

- **Programmable AO**
0...5 mA/0/4...20 mA/0...2/5/10 V
- **Size of DIN 96 x 48 mm**
- **Power supply 230 VAC**

Options

Excitation • Comparators • Data output • Power supply 24 VAC, 110 VAC, 10...30 VDC

Description

The OM 601AV model is a panel programmable analog output (programmable output of current/voltage).

The instrument is based on an 8-bit controller and precise analog output that secure high accuracy, stability and easy operation of the instrument.

The instrument generates output signal controlled through the instrument keys, the contacts on the control inputs (Input 1 and 2) or through automatically (slow course - 1 Hz) selected function: sin/saw/triangle/rectangular/incidental function.

Standard functions

Programmable AO

Setting	manual/automatic by keys on the front panel you may move within the required AO range, projection on the display may be set for both limit AO values
Projection	.99999...999999

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). The measured units may be projected on the display.

Options

Excitation is suitable for feeding of sensors and transmitters. It has galvanic isolation, with continuously adjustable value in the range of 2...24 VDC.

Dual comparator serves 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.

Data output 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 with the ASCII protocol.

Technical data

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)

PROJECTION

Display:	-999...3999, red or green 14-segment LED, digit height 14 mm
Decimal point:	adjustable - in Configuration menu
Brightness:	adjustable - in Configuration/User menu

INSTRUMENT ACCURACY

Tempco:	60 ppm/°C
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	-999...3999
Hysteresis:	0...999
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

DATA OUTPUTS

Data format:	rate 150...115 200 Baud, 8 bit + no parity + 1 stop bit
RS 232	isolated

EXCITATION

Adjustable:	2...24 VDC/50 mA, with galvanic separation
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POWER SUPPLY

24; 110; 230 VAC, 50/60 Hz, ±10 %, 5 VA
10...30 VDC/max. 300 mA, (24 VDC/max. 150 mA), isolated

MECHANIC PROPERTIES

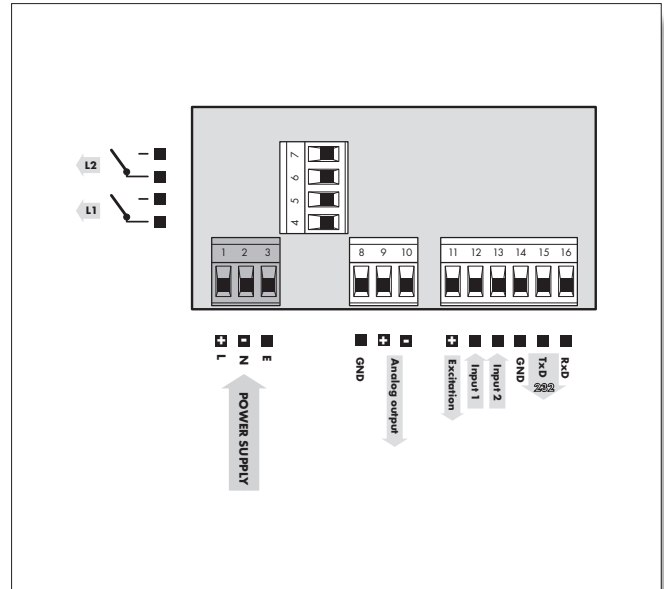
Material:	Noryl GFN2 SE1, incombustible UL 94 V-I
Dimensions:	96 x 48 x 120 mm
Panel cut:	90,5 x 45 mm

OPERATING CONDITIONS

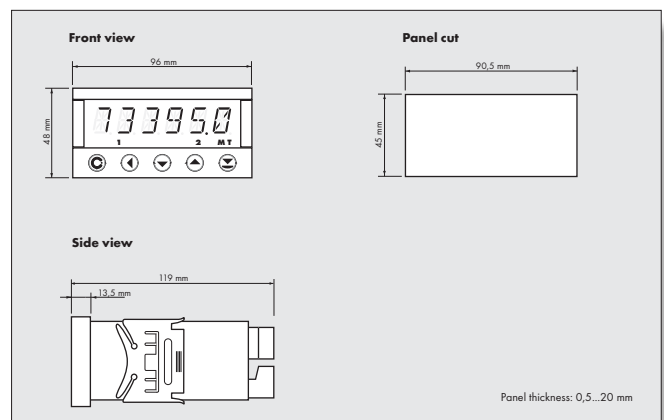
Connection:	connector terminal board, conductor section up to 2,5 mm ²
Stabilization period:	within 15 minutes after switch-on
Working temperature:	0°...60°C
Storage temperature:	-10°...85°C
Covering:	IP65 (front panel only)
Construction:	safety class I
Electrical safety:	EN 61010-1, A2
Overtoltage category:	for pollution degree II

EMC:	III. - instrument power supply, relay output (300 V) II. - input, output, excitation (300 V) EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2
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Connection



Dimensions



Order code

