

OM 621BCD



- **6 digit programmable projection**
- **Input BCD/transformer tapping leads**
- **Comparators**
- **Size of DIN 96 x 48 mm**
- **Power supply 80...250 V AC/DC**

Extension

Comparators • Excitation • Data output • Universal analogue output • Power supply 9...50 V AC/DC

Description

The OM 621BCD model is a 6 digit panel monitor of serial or parallel BCD/BIN signal and monitor of active transformer tapping lead, allowing for projection of transitional status and servomotor running.

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

Standard functions

Programmable display projection

Setting type of input BCD/tapping lead may be set in „CM“
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

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...99,9s. Reaching the preset limits is signalled by LED and simultaneously by the switch-on of the relevant relay. For the tapping leads display device it is possible to set the regime of relay switching BCD (10=10000)/BIN (10=01010).

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 DIN MessBus/ASCII protocol.

Analogue outputs will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer universal analogue output with the option of selection of the type of output - voltage/current. The value of analogue output corresponds with the displayed data and its type and range are selectable in programming mode.

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.

Technical data

INPUT

Display device for BCD

Type : BCD serial: 4 data + 6 strobe
8 data + 3 strobe
12 data + 2 strobe
4 data + 3 positions + 1 strobe
BIN/BCD parallel: 20 data/24 data

Level: 5...24 VDC, 10...60 VDC

Addressing: up to 8 instruments

Tapping leads display devices

Voltage: 5...25 VDC
20...130 VDC
60...250 VDC

Number of tap.leads: 23 + 1 signalisation (upon request 26)

Input odpor: 5,5 kOhm/V

Output relay BIN/BCD, 5 relays with switch-on contact (250 VAC/50 VDC, 3 A)

PROJECTION

Display: 999999, intensive red or green LED, digit height 14 mm
Brightness: fixed

INSTRUMENT ACCURACY

Tempco: 25 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 < 10 ms

Limits: -99999...999999

Hysteresis: 0...99999

Delay: 0...99,9 s

Outputs: 2 relays with switching & 2 relays with switch-on contact (250 VAC/50 VDC, 3 A)

- cannot be used for „Tapping leads display devices“

DATA OUTPUTS

Data format: rate 600...115 200 Baud,
7 bit + even parity + 1 stop bit (DIN MessBus),
8 bit + no parity + 1 stop bit (ASCII)

RS 232 isolated, two-way communication

RS 485 isolated, addressing (max. 31 instruments)

ANALOGUE OUTPUTS

Type: isolated, programmable with resolution max. 14 bit, analogue output corresponds with 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 < 10 ms

Voltage: 0...2 V/5 V/10 V

Current: 0...5 mA/20 mA/4...20 mA (compensation of conduct up to 600 Ohm)

EXCITATION

Adjustable: 2...24 VDC/50 mA, (occupies terminal/bracket 15 - Adr. 2)

POWER SUPPLY

80 ... 250 V (AC/DC)

9 ... 50 V (AC/DC)

- Power supply is protected by a fuse inside the instrument (630 mA)

MECHANIC PROPERTIES

Material: Noryl GFN2 SE1, incombustible UL 94 V-I

Dimensions: 96 x 48 x 154 mm

Panel cut-out: 90,5 x 45 mm

OPERATING CONDITIONS

Connection: connector terminal board, conductor section up to 1,5/2,5 mm²

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 II

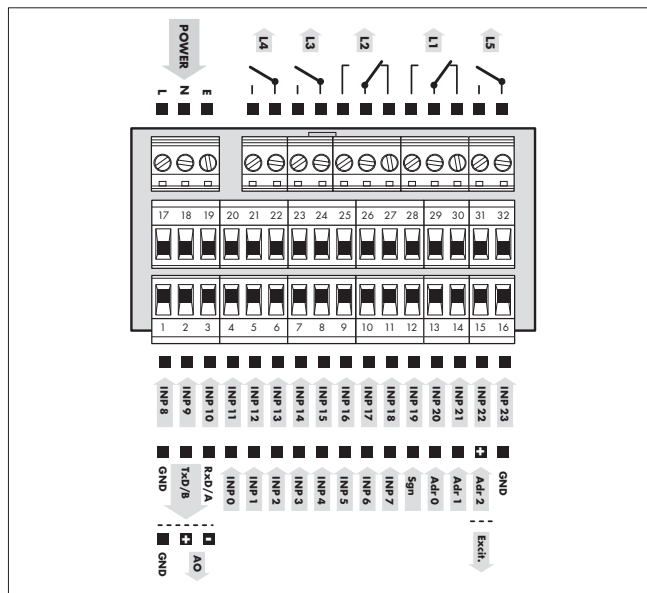
Overvoltage category: EN 61010-1, A2, for pollution degree II

III. - instrument power supply, relay outputs (300 V)

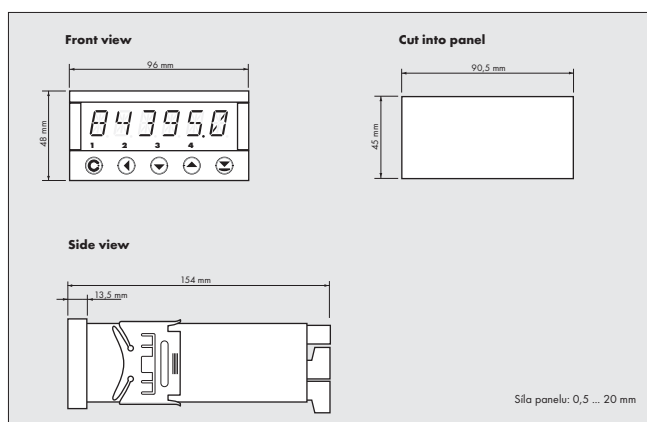
II. - input, output (270 V)

EMC: EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

Connection



Dimensions



Order code

