



- 6-DIGIT PROGRAMMABLE PROJECTION
- INPUT BCD/TRANSFORMER TAPPING LEAD
- SIZE OF DIN 96 x 48 MM
- POWER SUPPLY 80...250 V AC/DC
- Option
 - Excitation • Comparators • Data output • Analog output
 - Power supply 9...50 V AC/DC

OM 621BCD

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 processor that secures high accuracy, stability and easy operation of the instrument.

OM 621BCD

MONITOR BCD AND ACTIVE TRANSFORMER TAPPING LEADS

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

OPTION

EXCITATION is suitable for feeding of sensors and transmitters. It is isolated, with continuously adjustable value in the range of 2...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 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 and RS485 with the DIN MessBus/ASCII 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.

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Calibration: the type of BCD/transformer lead input may be set in „CM“

Projection: -99999...999999

OUTPUT

Relays' functions: For the tapping leads display device it is possible to set the regime of relay switching - BCD (10=10000)/BIN (10=01010)

TECHNICAL DATA

INPUT

BCD display device

Serial BCD: 4 data + 6 strobe; 8 data + 3 strobe; 12 data + 2 strobe; 4 data + 3 position + 1 strobe

Parallel BIN/BCD: 20 data/24 data

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

Addressing: up to 8 display devices

Tapping leads display device

Input: 5...24 VDC, 10...60 VDC, 90...130 VDC, 190...250 VDC

Number of tap leads: 24 + 1 signalling (on request 27)

Input resistance: 5,5 kΩ/V

Output: relay BIN/BCD, 5 relays (250 VAC/50 VDC, 3 A)

PROJECTION

Display: 999999, red or green 14-segment LED, digit height 14 mm

Brightness: fixed

INSTRUMENT ACCURACY

TK: 60 ppm/°C

Watch-dog: reset after 1,2 s

Calibration: at 25°C and 40% r.h.

COMPARATOR

Type: digital, setting in menu, contact switch < 15 ms

Limits: -99999...99999

Hysteresis: 0...99999

Delay: 0...99,9 s

Output: 2x (3) Form A relays and 2x Form C relays (250 VAC/50 VDC, 3 A)

DATA OUTPUT

Data format: 7 bit + even parity + 1 stop bit (DIN Messbus)

8 bit + no parity + 1 stop bit (ASCII)

Rate: 600...115 200 Baud

RS 232: isolated

RS 485: isolated, addressing (max. 31 instruments)

ANALOG OUTPUT

Type: isolated, programmable with resolution of max. 10 000 points, AO corresponds with the displayed data, type and range are selectable in programming mode

Non-linearity: 0,2% of range

TK: 50 ppm/°C

Rate: response to change of value < 40 ms

Ranges: 0...2,5/10 V, 0...5 mA, 0/4...20 mA (comp. < 500 Ω)

EXCITATION

Adjustable: 2...24 VDC/60 mA, isolated

POWER SUPPLY

9...50 V AC/DC, ±10%, 13,5 VA, PF≥0,4, I_{STP}< 40 A/1,1 ms

80...250 V AC/DC, ±10%, 13,5 VA, PF≥0,4, I_{STP}< 40 A/1,1 ms

Power supply is protected by a fuse inside the instrument

MECHANICAL PROPERTIES

Material: Noryl GFN2 SE1, incombustible UL 94 V-1

Dimensions: 96 x 48 x 154 mm

Panel cutout: 90,5 x 45 mm

OPERATING CONDITIONS

Connection: connector terminal board, section < 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.

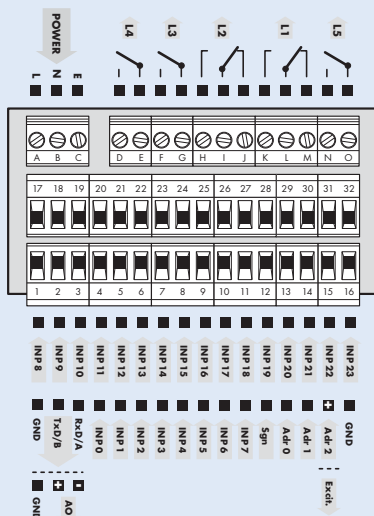
Power supply > 600 V (ZI), 300 V (DI)

Input, output, Exc. > 300 V (ZI), 150 V (DI)

EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

OM 621BCD

Power supply	9...50 V AC/DC	0			
	80...250 V AC/DC	1			
Input	5...25 VDC	A			
	10...60 VDC	B			
	90...130 VDC (110 VDC)	C			
	190...250 VDC (230 VDC)	D			
Comparators	none	0			
	1 relays	1			
	2 relays	2			
	3 relays	3			
	4 relays	3			
	5 relays BCD/BIN (tapping leads display device)	5			
Output	none	0			
	Analog output	1			
	RS 232	2			
	RS 485	3			
Excitation	no			0	
	yes			1	
Display color	red				1
	green				2

Default execution is shown in bold