## **OM** 621BCD



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- 6-digit programmable projection
- Input BCD/transformer tapping leads
- Mathematic functions, Digital filters
- Size of DIN 96 x 48 mm
- Power supply 9...50 V AC/DC; 80...250 V AC/DC

#### Option

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

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The instrument is based on a single-chip microprocessor, which guarantees accuracy, stability and easy control.

## BCD MONITOR



#### OPERATION

The instrument is set and controlled by five buttons located on the front panel. **CONFIGURATION MENU** is protected by an optional number code and contains complete instrument setting.

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

#### OPTION

**EXCITATION** is suitable for feeding sensors and transmitters. It is continuously adjustable within the range of 5...24 VDC.

**COMPARATORS** are assigned to monitor one, two, three or four limit values with relay output. As a user you can select the mode limit: LIMIT/BATCH/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/PROFIBUS protocols.

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. Its type and range are selectable in menu.

#### STANDARD FUNCTIONS

#### PROGRAMMABLE PROJECTION

Calibration: the type of BCD/transformer lead input may be set in menu Projection: -99999...999999

#### OUTPUT

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

#### FUNCTIONS

Min./max. value: registration of min./max. value reached during measurement Mathemat. operations: polynom, 1/x, logarithm, exponential, power, root, sin x

#### DIGITAL FILTERS

Floating average: from 2...30 measurements Exponential average: from 2...100 measurements Rounding: setting the projection step for display

### **TECHNICAL DATA**

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INPUT	
BCD - monitor	
Range	524 VDC 1060 VDC
Serial BCD	4 data + 6 strobe 8 data + 3 strobe 12 data + 2 strob 4 data + 3 pozice + 1 strobe
Paralel BIN/BCD	20 data/24 data
Adressing	up to 8 monitors
BCD - transformer ta	pping leads monitor
Range	524 VDC 1060 VDC 90130 VDC 190250 VDC
Tap. leads number	24 + 1 signalling on request 27
Input resistance	5.5 kΩ/V
Outputs	relay BIN/BCD 5 relay (250 VAC/50 VDC, 3 A) Mode: BIN 10 ≈ 01010 / BCD 10 ≈ 10000

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Display	-999999999999, single color 14-segment LED				
Digit height	14 mm				
Display color	red or green				
	adjustable - in menu				
Decimal point	dujustable - III menu				
Brightness	adjustable - in menu				
Brightness	adjustable - in menu				
Decimal point Brightness NSTRUMENT SPE TC Watch-dog	adjustable - in menu ECIFICATION				

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No. of outputs	up to 5	Range	1030 V AC/DC, ±10 %, PF ≥ 0.4, I <sub>STP</sub> < 40 A / 1 ms,					
Туре	digital, menu adjustable		isolated 80250 V AC/DC, ±10 %, PF ≥ 0.4, I< 40 A / 1 m					
Mode	HYSTER. active above set value WINDOW active in the set window / band		isolated Protection by fuse inside the device.					
	BATCH active in set period	Consumption	< 8.0 W / 7.8 VA					
Function Relays/OC	CLOSE is closed in active mode OPEN is open in active mode	MECHANIC PROPERTIES						
Limits	-99999999999	M + 1						
Hysteresis	09999999	Material	Noryl GFN2 SE1, incombustible UL 94 V-I, black					
Delay	099.9 s	Dimensions	96 x 48 x 120 mm (w x h x d)					
Outputs	13x relay with switch-on contact (Form A)	Panel cutout	90.5 x 45 mm (w x h)					
	(250 VAC/30 VDC, 3 A)* 12x relay with switching contact (Form C) (250 VAC/50 VDC, 3 A)*	OPERATING CONDITIONS						
Relays	1/8 HP 277 VAC, 1/10 HP 125 V, Pilot Duty D300	Connection	connector terminal blocks, section < 1.5 / 2.5 mm <sup>2</sup>					
	* values apply for resistance load	Stabilization period	within 5 minutes after switch-on					
NALOG OUTPUTS		Working temperat.	-20º60ºC					
No. of outputs	1	Storage temperat.	-20º85ºC					
Туре	isolated,	Working humidity	< 95 % r.v., non condensing					
	adjustable with resolution of max. 10 000 points, analog output corresponds with the displayed data,	Protection	IP64, front panel only					
	type and range are selectable in menu	Construction	safety class I					
тс	50 ppm/ºC	El. safety	EN 61010-1, A2					
Non-linearity	0.2 % from FS	Dielectric strength	4 kVAC per 1 min test between supply and input					
Rate	response to change of value < 40 ms		4 kVAC per 1 min test between supply and data/ analog output					
Ranges	02 / 5 / 10 V, resistive load ≥ 1 kΩ 020 mA /420 mA, compensation < 600 Ω/12 V		4 kVAC per 1 min test between input and relay output 2.5 kVAC per 1 min test between input and data/					
XCITATION			analog output					
Adjustable 5 / 12 / 17 / 17 / 24 VDC, < 2,5 W, isolated		Insulation resist.*	for pollution degree II, measuring cat. III power supply, input > 670 V (PI), 300 (DI) input, output, excitation > 300 V (PI), 150 V (DI)					
		EMC	EN 61326-1, Industrial area					
		Seismic qualification	IEC/IEEE 60980-344 Edition 1.0, 2020, par. 6, 9					
		Mechanical	EN 60068-2-6 ed. 2:2008					

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\* PI - Primary insulation, DI - Double insulation

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CONNECTION



### ORDER CODE

OM 621BCD	-						
Power supply	950 V AC/DC	0					
	80250 V AC/DC	1					
Input	525 VDC		А				
	1060 VDC		в				
	90130 VDC (110 VDC)		с				
	190250 VDC (230 VDC)		D				
Comparators	none			0			
	1 relays			1			
	2 relays			2			
	3 relays			3			
	4 relays			3			
5 relays B0	D/BIN (monitor of tapping leads)			5			
Output	none				0		
	Analog output				1		
	RS 232				2		
	RS 485				3		
Excitation	no					0	
	yes					1	
Display color	red						•
	green						1

Basic configuration of the instrument is indicated in bold.