Nokeval

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2081 Panelmeter for BCD, Gray and Binary inputs

- 5-digit display
- BCD, Gray and Binary inputs selectable
- Red or green display
- Configuration easy via front panel keys
- · Easily changeable for other sensor inputs
- Power supply 85..240 VAC or 12..32VDC/ 24 VAC
- Front panel protection IP65

The panelmeter 2081 is designed for BCD, Gray, and Binary code inputs. Input selection is easy via front panel keys. There are two power supply alternatives, 85..240 VAC and 12..32 VDC or 24 VAC, both galvanically isolated from inputs. The panelmeter generates power supply of 24 VDC, 100 mA for e.g. the closing contacts of the PLC. Brightness of the display is selectable. Front panel protection is IP65.

The panelmeter series 2000 is very flexible and easy to modify by changing input cards for different kinds of sensors, such as temperature sensors, pulse sensors, serial inputs etc. The modification does not require any calibration. The optional cards are the same for all the instruments in this product family. Each panelmeter type has its own datasheet.

Technical specifications:

Display:	BCD code 5 di	gits
	Gray code 065	5535
	Binary code 065	5535
Display colour	bright red (or green) LED,	
	brightness selectable	
Digit height	14.5 mm	

Dec. 4-bit Binary	4-bit Gray Code	Display
$0 MSB 0 0 0 0_{LSB}$	$_{\rm MSB}$ 0 0 0 0 $_{\rm LSB}$	0
1 0 0 0 1	0 0 0 1	1
2 0 0 1 0	0 0 1 1	2
3 0 0 1 1	0 0 1 0	3
4 0 1 0 0	0 1 1 0	4
5 0 1 0 1	0 1 1 1	5
6 0110	0 1 0 1	6
7 0111	0 1 0 0	7

Applications:

Binary code is simple to use from PLC I/O-lines. Gray code changes only one bit at a time. The most common Gray code application is angle sensors (aerials etc.)



Input Input resistance Operating temp. Terminals Supply for input loop Power supply Front panel protection Weight 1 = 5-24 VDC, 0 = <1V >10kΩ -10..+60 °C removable, 1,5 mm² 24 VDC, max 150 mA 85..240 VAC or 12..32 VDC/ 24 VAC IP65, with a rubber gasket 240 g

How to order:

Type



 Two BCD inputs

 Two BCD inputs

 Power supply

 12..32 VDC, 24 VAC or 85..240 VAC

The basic panelmeter has 1 BCD code or a 4-bit Gray or Binary input. More inputs with optional cards, two in each. The example above has 5 BCD inputs.

Optional cards:

Two BCD-inputs 2000-BCD (When ordering a panelmeter, the "2000" of the card is left out.)

The panelmeter is also available with a green LED display: please specify 2081GR in the order code.

BCD-Code			
Number	Code	Example	
1	8, 4, 2, 1	0001=1	
2	8, 4, 2, 1	0010=2	
3	8, 4, 2, 1	0011=3	
4	8, 4, 2, 1	0100=4	
5	8, 4, 2, 1	0101=5	
6	8, 4, 2, 1	0110=6	

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Number 9 in BCD code is selected as 1001 i.e. 1001 = 8 + + + 1 = 9



