



5312p01

Universal digital indicator

BAU200

For programmable input signal

Universal single point digital indicator

- Suitable for front-mounting in control panel
- With LED display
- Input signal (type of signal and measuring range) can be set with buttons
- For all Siemens Building Technologies sensors (LG-Ni 1000, T1, PT100, PT 1000, 0 ... 10 V)
- 0 ..10 V analog output signal
- For nominal voltage AC 24 V, 50/60 Hz

Application

The BAU200 universal digital indicator is suitable for mounting in the control panel front, or in control panel doors or covers. It can be programmed for use with a wide range of input signals.

Functions

The type of signal and measuring range can be programmed by use of the buttons (see table on page 4).

The measured value is displayed digitally and transmitted as a 0...10 V signal.

The supply voltage, input signal and output signal are electrically isolated (see technical data).

Ordering

When ordering, please specify the quantity, product name and type code.
Example: 1 BAU200 universal digital indicator

Mechanical design

- Multi-part plastic housing, comprising:
- LED 3 ½ -digit display (max. display range 1999 / –1999)
 - Front panel with membrane keyboard
 - PCB with screw terminals

Mounting and installation

Mounting instructions (CE1G5312X) are enclosed with the unit.
The digital indicator is suitable for mounting in the control panel front, or in control panel doors or covers. It is pushed into the cut-out from the front. It is secured without screws by means of a slide fitting on the sides of the unit.

Disposal



The device includes electrical and electronic components and must not be disposed of as domestic waste.

Current local legislation must be observed.

Commissioning

Refer to the operating instructions enclosed with the device (CE1G5312) for information on the settings.

Technical data

Supply	Operating voltage	AC 24 V, 50/60 Hz		
	Max. voltage tolerance	± 20%		
	Power consumption	≤ 8 VA (4 W)		
	External fuse	T 1.6 A		
Inputs	Measurement input	Electrically isolated from supply voltage and output		
	DC 0 ...10 V input	Input resistance ≥200kΩ Accuracy 0 ... 5 V: ± (0.02 V + 3 digit) Accuracy 5 ... 10 V: ± (0.02 V + 2 digit) Overvoltage max. 50 V		
	Resistance sensor (2-wire)	LG-Ni 1000, Pt 1000, Pt 100, T1 Sensor correction –3 ... +3°C / –3 ... +3°F Measuring current 800 µA Accuracy ± (0.5% of the reading + 5 digit) Overvoltage max. 5 V		
	Measuring cables	Standard cable, max. 300 m (shielded if heavy electromagnetic load)		
Outputs	Analog output DC 0 ..10 V	Electrically isolated from supply voltage and input Load ≥10kΩ Accuracy ± 0.2% (± 20 mV)		
Display	Display	Digital, 3½-characters, with – sign. Engineering unit indicated with adhesive labels supplied		
	Overflow indication			
Environmental conditions	Out-of-range by < ± 20%	Display of the value, flashing at rate of 2 Hz		
	Open circuit at input (out-of-range by > +20%)	Display of EEE, flashing at rate of 2 Hz		
	Short-circuit at input (out-of-range by > –20%)	Display of–EEE, flashing at rate of 2 Hz		
	Operation to	IEC 60 721-3-3		
Standards	Climatic conditions	class 3K5		
	Temperature (housing and electronics)	0...50 °C		
	Transport to	IEC 60 721-3-2		
	Climatic conditions	class 2K3		
Housing, device	Temperature	–25...+70 °C		
	Product safety			
	Safety requirements for electrical equipment for measurement, control and laboratory use	EN 61010-1		
	Electromagnetic compatibility			
	For use in industrial and domestic environments			
	Immunity	EN 60730-1		
	Emissions	EN 60730-1		
	Home and Building Electronic System (HBES)	EN 50 090-2-2		
	Conformity	CE, RoHS, WEEE		
	CE conformity to			
Weight	EMC directive	2004/108/EG		
	Low-voltage directive	2006/95/EG		
	Electrical connection	12 screw-terminals, 2.5 mm ²		
	Protection standard to IEC529	IP50 (mounted in control panel), IP 20 (terminals)		
Electrically isolating	Orientation	Any		
	Maintenance	No maintenance required		
	Weight (including packaging)	0.340 kg		
Electrically isolating		Measured inputs (Pin 1...6)	Output analog (Pin 8, 9)	24 VAC supply (Pin 14, 16)
	Measured inputs	-	500 V	4 kV
	Output analog	500 V	-	4 kV
	24 VAC supply	4 kV	4 kV	-

Selectable ranges

LG-Ni1000			
range	from	to	unit
1	0 ... 50		°C
2	-30 ... 50		°C
3	-30 ... 90		°C
4	-30 ... 130		°C
5	-50 ... 70		°C
6	-50 ... 180		°C
7	32 ... 122		°F
8	-22 ... 122		°F
9	-22 ... 194		°F
10	-22 ... 266		°F
11	-58 ... 158		°F
12	-58 ... 356		°F

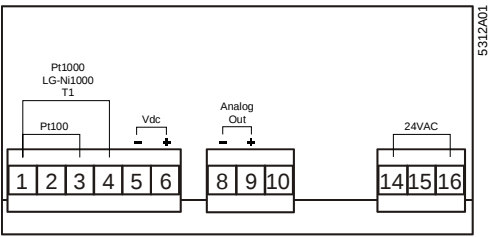
T1			
range	from	to	unit
1	-50 ... 80		°C
2	-30 ... 130		°C
3	-58 ... 176		°F
4	-22 ... 266		°F

Pt100			
range	from	to	unit
1	0 ... 60		°C
2	-50 ... 80		°C
3	-30 ... 130		°C
4	32 ... 140		°F
5	-58 ... 176		°F
6	-22 ... 266		°F

Pt1000			
range	from	to	unit
1	-50 ... 80		°C
2	-30 ... 130		°C
3	-20 ... 400		°C
4	-58 ... 176		°F
5	-22 ... 266		°F
6	-4 ... 752		°F

0-10V			
range	from	to	unit
1	0 ... 50		°C
2	0 ... 70		°C
3	0 ... 100		°C
4	0 ... 130		°C
5	-10 ... 120		°C
6	-35 ... 35		°C
7	-50 ... 50		°C
8	32 ... 122		°F
9	32 ... 158		°F
10	32 ... 212		°F
11	32 ... 266		°F
12	14 ... 248		°F
13	-31 ... 95		°F
14	-58 ... 122		°F
15	0 ... 100		%
16	0 ... 95		%
17	0 ... 90		%
18	0 ... 1999		ppm
19	0 ... 10		V
20	0 ... 1000		W/m2
21	0 ... 5		m/s
22	0 ... 10		m/s
23	0 ... 15		m/s
24	-50 ... 50		Pa
25	0 ... 100		Pa
26	0 ... 200		Pa
27	0 ... 250		Pa
28	0 ... 300		Pa
29	0 ... 500		Pa
30	0 ... 1000		Pa
31	0 ... 1500		Pa
32	20 ... 300		Pa
33	50 ... 500		Pa
34	100 ... 1000		Pa
35	0 ... 25		mbar
36	0 ... 30		mbar
37	0 ... 100		mbar
38	0 ... 200		mbar
39	0 ... 500		mbar
40	0 ... 1000		mbar
41	0 ... 2		bar
42	0 ... 4		bar
43	0 ... 5		bar
44	0 ... 10		bar
45	0 ... 16		bar
46	0 ... 20		bar
47	0 ... 25		bar
48	0 ... 40		bar
49	-1 ... 9		bar
50	-1 ... 24		bar

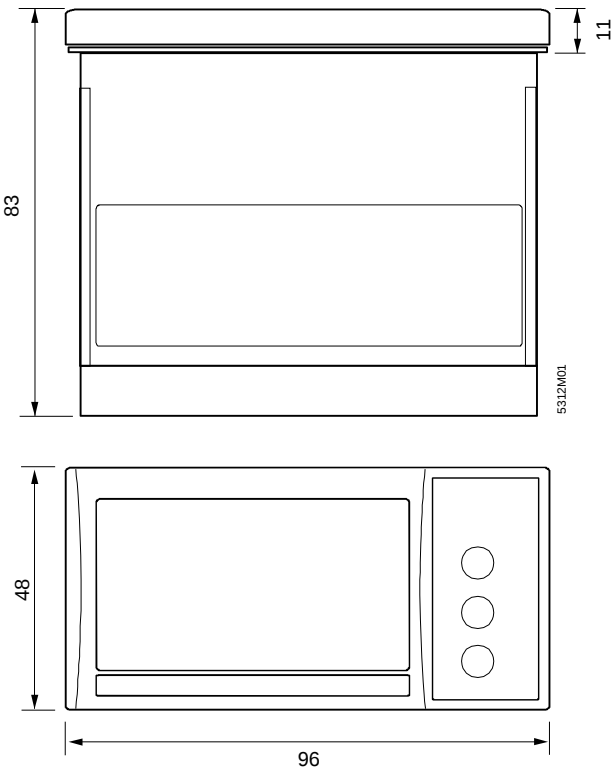
Connection terminals



Dimensions

All dimensions in mm

Indicator unit



Cut-out

