



## Universal digital indicator

**BAU**

for programmable input signal

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### Universal single point digital indicator

- suitable for front-mounting on control panels
- the type of signal, measuring range and engineering unit can be programmed by use the DIP switches
- with liquid crystal display (LCD)
- for nominal voltage AV 24 V, 50 ... 60 Hz

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### Use

The BAU universal digital indicator is suitable for frontal mounting in control panels, control panel doors or covers. It is normally used to indicate various programmable input signals.

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### Functions

The type of signal, measuring range and engineering unit can be programmed by use the DIP switches (see table on page 3). The measured value is displayed digitally. The supply voltage and input signal for the indicator are electrically isolated by a built-in isolating transformer.

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### Ordering

When placing order, please specify the quantity, product description and type code.  
*Example:* 1 Universal digital indicator BAU

## Mechanical design

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Multi-part synthetic housing, comprising:

- LCD digital display, 3½ digits (max. display 1999)
- Electronic PCB with connection terminals and DIP switches
- Front plate (frame)

## Mounting and installation notes

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Mounting instructions are enclosed with each device.

The BAU universal digital indicator is suitable for frontal mounting in control panels, control panel doors or covers. It is inserted into required cut-out from the front, and secured from the rear with the two side clips on the indicator housing.

## Disposal



Separate and recycle the printed circuit board, housing and (LCD) display.

## Commissioning notes

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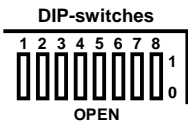
Refer to the table (page 3) to programme the indicator for the required input signal.

## Technical data

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Supply voltage	AC 24 V, 50 ... 60 Hz
Max. voltage tolerance	+10 / -15 %
Power consumption	≤ 0.8 VA
Measurement input:	
Input DC 0 ... 10 V	Input resistance ≥ 10 MΩ
T1 supply voltage	10 kΩ (pull-up) resistance from +15 V ref.
External reference voltage	Input resistance approx. 100 kΩ (for KLIMO bridge voltage 5.4 ... 6.4 V)
Display	Digital, 3½ digit display, with one character for engineering unit
Out-of-range indication	Display flashes, frequency approx. 2 s
Electrical connection	6 terminals 2.5 mm <sup>2</sup>
Protection class	III to EN60730
Protection standard	IP42 to IEC529 (when installed)
Ambient temperature:	
Operation	0 ... 45 °C
Storage	-25 ... 85 °C
Ambient humidity	20 ... 95 %rH, non-condensing
Mounting position	Any
Maintenance	None required
Weight (incl. packaging)	0.21 kg

## Setting table

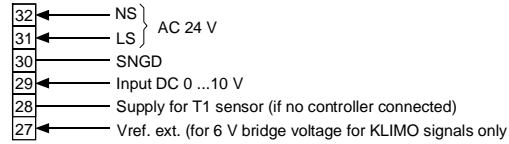


Type	Sensor		DIP switches								Unit	Range Display		V ref.
	Interface		1	2	3	4	5	6	7	8				
F..T1	T1		1	1	1	1	1	1	1	1	°C	-50 ... 150	int	
F..T1	T1		1	1	1	1	1	1	1	0	°F	-58 ... 302	int	
F..T1	T1		1	1	1	1	1	1	1	0	°F	-58 ... 200	int	
F..H2	0 ... 10 V		1	1	1	1	1	1	0	0	%rH	0 ... 100	int	
F..Q1	0 ... 10 V		0	1	1	1	1	1	1	1	AQU	0 ... 10	int	
CO <sub>2</sub>	0 ... 10 V		0	1	1	1	1	1	0	1	ppm	0 ... 1999	int	
V2	0 ... 10 V		0	1	1	1	1	1	1	0	m/s	0 ... 15	int	
P1	0 ... 10 V		0	1	1	1	1	1	0	0	Pa	0 ... 100	int	
P2	0 ... 10 V		1	0	1	1	1	1	1	1	Pa	0 ... 300	int	
P3	0 ... 10 V		1	0	1	1	1	1	0	1	Pa	0 ... 1000	int	
FDPA	0 ... 10 V		1	0	1	1	1	1	1	0	kPa	0 ... 10	int	
FDPA	0 ... 10 V		1	0	1	1	1	1	0	0	kPa	0 ... 20	int	
FDPA	0 ... 10 V		0	0	1	1	1	1	1	1	kPa	0 ... 50	int	
FDPA	0 ... 10 V		0	0	1	1	1	1	0	1	kPa	0 ... 100	int	
FPA	0 ... 10 V		0	0	1	1	1	1	1	0	bar	0 ... 1	int	
FPA	0 ... 10 V		0	0	1	1	1	1	0	0	bar	0 ... 2	int	
FPA	0 ... 10 V		1	1	0	1	1	1	1	1	bar	0 ... 5	int	
FPA	0 ... 10 V		1	1	0	1	1	1	0	1	bar	0 ... 10	int	
FPA	0 ... 10 V		1	1	0	1	1	1	1	0	bar	0 ... 16	int	
FPA	0 ... 10 V		1	1	0	1	1	1	0	0	bar	0 ... 25	int	
T30	KLIMO		0	1	0	1	1	1	1	1	°C	-6 ... 35	ext	
T35	KLIMO		0	1	0	1	1	1	0	1	°C	-35 ... 38	ext	
T120	KLIMO		0	1	0	1	1	1	1	0	°C	10 ... 120	ext	
H90	KLIMO		0	1	0	1	1	1	0	0	%rH	30 ... 85	ext	
V1	KLIMO		1	0	0	1	1	1	1	1	m/s	0 ... 15	ext	
S100	KLIMO		1	0	0	1	1	1	0	1	%	0 ... 100	ext	
P1	KLIMO		1	0	0	1	1	1	1	0	Pa	0 ... 100	ext	
P2	KLIMO		1	0	0	1	1	1	0	0	Pa	0 ... 300	ext	
P3	KLIMO		0	0	0	1	1	1	1	1	Pa	0 ... 1000	ext	
FDPE	KLIMO		0	0	0	1	1	1	0	1	kPa	0 ... 10	ext	
FDPE	KLIMO		0	0	0	1	1	1	1	0	kPa	0 ... 20	ext	
FDPE	KLIMO		0	0	0	1	1	1	0	0	kPa	0 ... 50	ext	
FDPE	KLIMO		1	1	1	0	1	1	1	1	kPa	0 ... 100	ext	
FPE	KLIMO		1	1	1	0	1	1	0	1	bar	0 ... 1	ext	
FPE	KLIMO		1	1	1	0	1	1	1	0	bar	0 ... 2	ext	
FPE	KLIMO		1	1	1	0	1	1	0	0	bar	0 ... 5	ext	
FPE	KLIMO		0	1	1	0	1	1	1	1	bar	0 ... 10	ext	
FPE	KLIMO		0	1	1	0	1	1	0	1	bar	0 ... 16	ext	
FPE	KLIMO		0	1	1	0	1	1	1	0	bar	0 ... 25	ext	
0 ... 15 V	0 ... 10 V		0	1	1	0	1	1	0	0	V	0 ... 15	int	
A-U1	0 ... 10 V		1	0	1	0	1	1	1	1	%	0 ... 100	int	
E-U1	KLIMO		1	0	1	0	1	1	0	1	%	0 ... 100	ext	
T105	KLIMO		1	0	1	0	1	1	1	0	°C	20 ... 105	ext	
T40	KLIMO		1	0	1	0	1	1	0	0	°C	12 ... 42	ext	
T38	KLIMO		0	0	1	0	1	1	1	1	°C	-32 ... 40	ext	
T20	KLIMO		0	0	1	0	1	1	0	1	°C	15 ... 20	ext	
x -50_50	0 ... 10 V		0	0	1	0	1	1	1	0	°C	-50 ... 50	int	
x 0_100	0 ... 10 V		0	0	1	0	1	1	0	0	°C	0 ... 100	int	
x -100_100	0 ... 10 V		1	1	0	0	1	1	1	1	°C	-100 ... 100	int	
x 0_500	0 ... 10 V		1	1	0	0	1	1	0	1	°C	0 ... 500	int	
x -50_150	0 ... 10 V		1	1	0	0	1	1	1	0	°C	-50 ... 150	int	
x 0_200	0 ... 10 V		1	1	0	0	1	1	0	0	°C	0 ... 199	int	
x 100_0	0 ... 10 V		0	1	0	0	1	1	1	1	%	100 ... 0	int	
y 0_100	2 ... 10 V		0	1	0	0	1	1	0	1	%	0 ... 100	int	
m 0_100	4 ... 8 V		0	1	0	0	1	1	1	0	%	0 ... 100	int	
xx 0_100	0 ... 1 V		0	1	0	0	1	1	0	0	%	0 ... 100	int	
FT-P40	0 ... 10 V		1	0	0	0	1	1	1	1	bar	0 ... 40	int	
FT-PM9	0 ... 10 V		1	0	0	0	1	1	0	1	bar	-1 ... 9	int	
FT-P4	0 ... 10 V		1	0	0	0	1	1	1	0	bar	0 ... 4	int	
FKA-P1	0 ... 10 V		1	0	0	0	1	1	0	0	"wc	0 ... 0,4	int	
FKA-P1	0 ... 10 V		0	0	0	0	1	1	1	1	"wc	0 ... 1,2	int	
FKA-P3	0 ... 10 V		0	0	0	0	1	1	0	1	"wc	0 ... 400	int	
x 0_50	0 ... 10 V		0	0	0	0	1	1	1	0	°C	0 ... 50	int	
x -35_35	0 ... 10 V		0	0	0	0	1	1	0	0	°C	-35 ... 35	int	

1 = closed = on  
0 = open = off

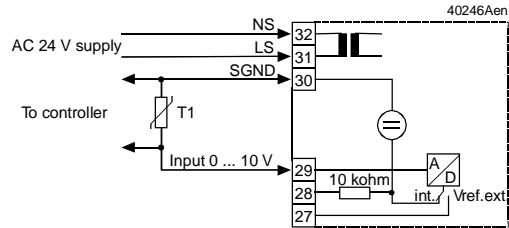
## Connection terminals

940245en

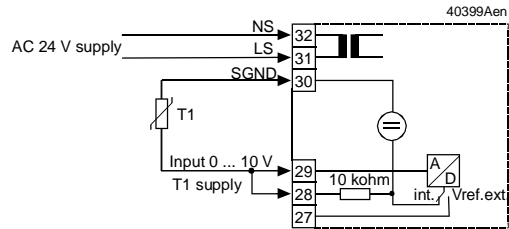


## Connection diagrams (examples)

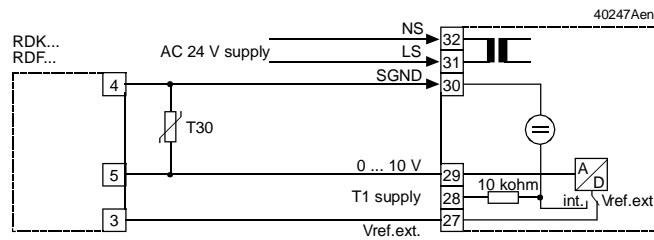
### Sensor and controller



### T1 sensor without controller



### With KLIMO sensor



## Dimensions

All dimensions in mm

