

## Analog and digital inputs/outputs in one module

### Mixed input/output module

- 2 analog inputs 4 ... 20 mA
- 1 binary output
- 1 pulse input
- 1 status input

### Protection category IP65



### Article no. BWU1931: Analog and digital inputs/outputs in one module

The analog module has 2 analog inputs 4 ... 20 mA, 1 binary output, 1 pulse input and 1 status input.

The conversion of the measured value and the data transmission via AS-i occurs according to AS-i Profile 7.5.5. Inputs are completely galvanically isolated. The ground of the binary output is connected to 0 V

ext. Analog sensors can be connected via cage clamp terminals. The sensor-interfaces are supplied by external voltage (according to PELV) via the black ribbon cable, 1 A max. The external 24 V supply voltage must be connected. The resolution of the analog data is 16 bit.

Article no.	BWU1931
Analog inputs	2 inputs 4 ... 20 mA/ 50 W
Binary outputs	1 output 24 V/ 0,5 A
Digital inputs	1 pulse input 0 ... 1kHz, treshold value 13 V 1 status input 0 ... 10 Hz, treshold value 13 V
Resolution	16 bit
Max. current per analog input	40 mA
Range of value	40 mA
Transformation speed	120 ms for analog inputs
ASi Profile	7.5.5
ID code	5
ID1 code	F
ID2 code	5
IO code	7
Displays	
LED green (analog 1)	analog signal 1
LED green (analog 2)	analog signal 2
LED green (binary output)	binary signal
LED green (pulse input)	pulse signal
LED green (status input)	status signal
LED green (Pwr)	ASi voltage
LED red (Fault)	ASi communication error, peripheral fault
LED green (Aux)	ext. power on (mandatory)
Operating current	< 80 mA
Operating voltage	30 V (20 ... 31.6 V)
Voltage of insulation	≥ 500 V
EMC directions	EN 61 000-6-2 EN 61 000-6-4
Ambient operating temperature	0°C ... +70°C
Storage temperature	-25°C ... +85°C
Pollution degree	2
Housing	housing for DIN-rail mounting
Dimensions (L / W / H in mm)	90 / 80 / 70
Protection category (EN 60529)	housing IP65
Tolerable loading referring to humidity	according to EN 61131-2

### Programming:

(Bit-settings of ASi parameters)

Bit P0:

- 1: counter in operation
- 0: counter set to "0"

Bit P1:

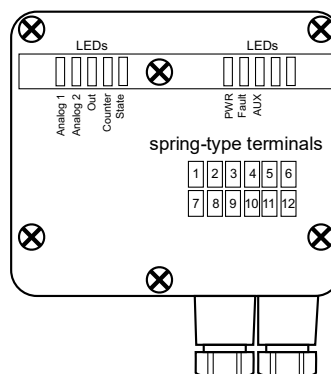
- 1: upward counting
- 0: downward counting

Bit P2:

- 1: Peripheral fault is indicated
- 0: Peripheral fault is *not* indicated

Bit P3:

- 1: scaling (analog values) 4000 ... 20000 dec.
  - 0: scaling (analog values) 0 ... 27648 dec.
- (Siemens format)



- |     |                         |
|-----|-------------------------|
| Bit | Function                |
| D0  | input status / output 1 |
| D1  | input pulse / n.a.      |
| D2  | n.a. / n.a.             |
| D3  | n.a. / n.a.             |
| Bit | Function                |
| A0  | input 1                 |
| A1  | input 2                 |
| A2  | pulse count             |
| A3  | n.a.                    |

## Connections:

1	24 V ext.	7	0 V ext.
2	Sig. + Ch 1	8	Sig. - Ch 1
3	Sig. + Ch 2	9	Sig. - Ch 2
4	Sig. + Pulse	10	Sig. - Pulse
5	Sig. + Status	11	Sig. - Status
6	Sig. + Out	12	0 V Out

## Accessories:

- ASI-5/ASI-3 Address Programming Device (art. no. BW4708)