

AS-i Analog Module: 4 analog Inputs (M12)

Bühl
+ Wiedemann
...
THE AS-INTERFACE MASTERS

4 analog inputs on M12 socket

Galvanical isolation to AS-i

4 ... 20 mA

0 ... 10 V

Profile 7.3 "Plug and Play"

As simple as digital AS-i I/O



High protection category IP65



Article no. BWU2049 for 4 ... 20 mA, Siemens format

Article no. BWU1742 for 0 ... 10 V, advanced temperature range: -20°C ... +70°C

The analog module has 4 analog inputs.

M12 connectors connect sensors to the analog module. The sensors are powered out of AS-i or an external voltage supply (according to PELV). The current supply switches automatically to the supply out of an external voltage supply, as soon as an external voltage is connected.

The analog sensors are galvanically isolated to AS-i.

The conversion of the measured value and the data transmission out of AS-i occurs asynchronously according to the AS-i Profile 7.3. The resolution of the analog data is 16 bit.

With infrared interface for slave addressing.

Article no.	BWU2049	BWU1742
Inputs	4 inputs 4 ... 20 mA	4 inputs 0 ... 10 V
Voltage supply, sensors		via AS-i/extern
Internal resistance	50 Ω	100 kΩ
Max. input current	40 mA	—
Max. input voltage	—	25 V
Resolution	16 bit/1 µA	16 bit/1 mV
Range of value	0 ... 27648 dec. (Siemens format)	0 ... 10000 dec.
AS-i Profile	7.3	
ID Code	3 _{hex}	
ID2 Code	E _{hex}	
IO Code	7 _{hex}	
Displays		
LED green (PWR)		AS-i voltage
LED red (FAULT)		AS-i communication error, peripheral fault
LED green (AUX)		voltage supply 24 V for the analog part
LED yellow (In 1)		state of channel 1
LED yellow (In 2)		state of channel 2
LED yellow (In 3)		state of channel 3
LED yellow (In 4)		state of channel 4
Operating current	< 200 mA	
Operating voltage		AS-i (30 V DC)
Voltage of insulation		≥ 500 V
EMC directions	EN 50 081-2, EN 61 000-6-2	
Ambient operating temperature	0°C ... +70°C	-20°C ... +70°C
Storage temperature	-20°C ... +85°C	-20°C ... +85°C
Housing	housing for DIN-rail mounting	
Dimensions (L, W, H)	80 mm, 90 mm, 43 mm	
Protection category (DIN 40 050)	housing IP65	

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Programming:

(Bit-setting of AS-i parameters)

Bit P0 (BWU2049):

1: Bridge between Pin 3 and 4 active
0: Bridge between Pin 3 and 4 not active

Bit P0 (BWU1742):

Not used

Bit P1 and P2:

Analog input is

P1	P2	1	2	3	4
0	0	on	off	off	off
0	1	on	on	off	off
1	0	on	on	on	off
1	1	on	on	on	on

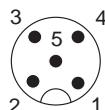
Bit P3:

1: Peripheral fault (e. g. broken wire to the sensor) is indicated
0: Peripheral fault (e. g. broken wire to the sensor) is not indicated

Accessories:

- AS-i substructure module to connect 2 AS-i flat cables (article no. BW1180)
- AS-i substructure module to connect 1 AS-i flat cable, 1 flat cable for additional supply (article no. BW1181)
- AS-i substructure module to connect 2 AS-i round cable (article no. BW1182)
- AS-i substructure module to connect 1 AS-i round cable, 1 round cable for additional supply (article no. BW1183)
- AS-i substructure module to connect 2 AS-i flat cables with addressing socket (article no. BW1438)

M12 connector:



1	24 V extern
2	Sig. +
3	0 V
4	Sig. -
5	Shield