

AS-i Analog Module: 2 analog Inputs

2 analog Inputs

in one module:

- 4 ... 20 mA and 0 ... 10 V (BWU1726)
- 4 ... 20 mA and 1 ... 5 V (BWU1447)

Profile 7.3 "Plug and Play" as simple as digital AS-i I/O

Protection category IP20



Article no. BWU1447: SIEMENS scaling

Article no. BWU1726: Default power supply 24 V external

The analog module has 2 analog inputs.

The connection of sensors is made by Combicon clamps. Current or voltage modules can be attached over different clamps. The current supply of the sensors can take place depending upon position of a slide switch from AS-i or from external voltage (after PELV). With the help of a 2. slide switch the 2. channel in favor of faster data commu-

nication can be switched off. The position of the slide switches is indicated over LEDs.

The conversion of the measured value and the data transmission via AS-i occurs asynchronously according to AS-i Profile 7.3. The resolution of the analog data is 16 bit. The analog modules contains 50 Hz and 60 Hz filters. These filters can be optionally activated with the help of the AS-i parameters.

Article no.	BWU1447 BWU1726	
2 inputs	4 ... 20 mA (BWU1447 BWU1726)	0 ... 10 V (BWU1726) 1 ... 5 V (BWU1447)
Voltage supply, sensors	via AS-i/extern	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	4000 ... 20000 dec. (BWU1447: 0 ... 27648 dec.)	0 ... 10000 dec. (BWU1447: 0 ... 27648 dec.)
AS-i Profile	7.3	
ID Code	3 _{hex}	
ID2 Code	D _{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 green (INT)	voltage supply for the analog part out of AS-i	
LED green (Analog 1)	state of channel 1	
LED green (Analog 2)	state of channel 2	
LED green (Analog 1)	channel 1: LED on: current measurement, LED off: voltage measurement	
LED green (Analog 2)	channel 2: LED on: current measurement, LED off: voltage measurement	
Operating current	< 80 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	
Storage temperature	-25°C ... +85°C	
Housing	housing for DIN-rail mounting	
Dimensions (L, W, H)	99 mm, 22,5 mm, 92 mm	
Protection category (DIN 40 050)	housing IP20	

Supplying external loads:

by supply out of AS-i: 50 mA max.

by external supply: 500 mA max. (750 mA fuse)

Attention: no PE connection at 24 V aux. supply!

Programming:

(Bit-setting of AS-i parameters)

Bit P0:

- 1: 50 Hz filter in A/D Converter active
- 0: 60 Hz filter in A/D Converter active

Bit P1:

- 1: channel 2 is projected
- 0: channel 2 is not projected

Bit P2:

- 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

Bit P3 (BWU1447):

not used

Bit P3 (BWU1726):

- 1: normal operating mode
- 0: both channels in current mode and without recognition of wire break

Connections:

1	I1 Sig. +
2	I1 Sig. -
3	24 V ext.
4	0 V ext.
5	I2 Sig. +
6	I2 Sig. -
7	24 V ext.
8	0 V ext.
9	U1 Sig. +
10	U1 Sig. -
11	U2 Sig. +
12	U2 Sig. -
13	AS-i+
14	AS-i-
15	AUX+
16	AUX-

