AS-i Analog Module: 2 analog Inputs



THE AS-INTERFACE MASTERS

2 analog Inputs

in one module:

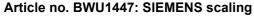
• 4 ... 20 mA and 0 ... 10 V (BWU1726) • 4 ... 20 mA and 1 ... 5 V (BWU1447)

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

Protection category IP20



Article no.



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 communication 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 asynchronically according to AS-i Profile 7.3. The resolution of the analog data is 16 bit. The analog modules contains 50 $\rm Hz$ and 60 Hz filters. These filters can be optionally activated with the help of the AS-i parameters.

200	5
CUL US LISTED IND.CONT.EO. 1HD8	(

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

BWU1447 BWU1726

Range of value 4000 ... 20000 dec . 10000 dec (BWU1447: 0 ... 27648 dec.) (BWU1447: 0 ... 27648 dec.) AS-i Profile 7.3 ID Code 3_{hex} ID2 Code D_{hex} IO Code 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) LED on: current measurement, channel 1: LED off: voltage measurement LED green (Analog 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 EN 50 081-2. EN 61 000-6-2 EMC directions 0°C ... +70°C Ambient operating temperature

Supplying external loads:

Storage temperature

Dimensions (L, W, H)

Housing

Protection category (DIN 40 050)

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)

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

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

Bit P2:

- 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):

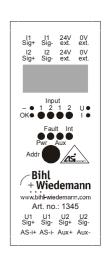
not used

Bit P3 (BWU1726):

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

Connections:

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-	



-25°C ... +85°C

housing for DIN-rail mounting

99 mm. 22.5 mm. 92 mm

housing IP20