

ASi Module for building services engineering

ASi module for building service engineering

2 analog inputs 0 ... 10V
2 digital inputs

1 AB address

The outputs are powered out of ASi or out of 24V AC/DC (switchable)

Housing with external fastening tabs



Article no. BW2537: ASi module for building service engineering with 2 analog inputs 0 ... 10V and 2 digital inputs

The ASi analog module BW2537 is a 2I analog module with two additional binary switching inputs and meets the requirements of the new ASi Specification 3.

The sensors are connected via cage clamp terminals. The power supply of the inputs can take place depending on the position of the slide switch from ASi or an external voltage (PELV) 24V AC or DC.

The resolution of the analog data is 16 bit. Addressing is done either via a programming terminal or bus master.

On the ASi master the two binary inputs are located in the field of binary input data, the analog inputs in the field of analog input data.

Article no.	BW2537
Connection	
Connection	cage clamp terminals
ASi	
Profile	S-7.A.5
ID-Code	A _{hex}
ID2-Code	5 _{hex}
IO-Code	7 _{hex}
Address	1 AB address
Operating voltage	30 V (20 ... 31.6 V)
Current input EXT max.	<40 mA
Current input INT max.	<140 mA
AUX	
Voltage	24 V AC/DC

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Article no.	BW2537
Input	
Analog inputs	2
Range value analog inputs	0 ... 10 V DC
Input resistance analog inputs	100kΩ
Digital inputs	2, AC/DC
Switching threshold digital inputs	ca. 11 V
Power supply	out of ASi/AUX (switchable)
Sensor supply	short-circuit and overload protected (if supplied out of ASi) according to EN 61131-2
Current at switch position EXT	≤10mA per analog-IN (0 °C ... 55 °C) ≤20 mA per digital-IN (0 °C ... 55 °C) Σ(digital + analog + supply) ≤1,6A
Current at switch position INT	≤10 mA per analog-IN (0 °C ... 55 °C) ≤20 mA per digital-IN (0 °C ... 55 °C) Σ(digital + analog + supply) ≤100 mA (≤45 °C) or ≤90 mA (45 °C ... 55°C)
Resolution	16 Bit or 1mV/Bit
Range of value	0 ... 10.000 dec.
Display	
LED ASi (green)	voltage at the ASi clamps
LED FLT/FAULT (red)	ASi communication error, peripheral fault
LED AUX (green)	voltage supply 24V for the analog part
LED I1, I2 (yellow)	state of the digital inputs 1 and 2
Environment	
Applied standards	EN 50081-2, EN 61000-6-2, EN 60529
Housing	polycarbonate / polystyrene
Operating temperature	0 °C ... +55 °C
Storage temperature	-25 °C ... +55 °C
Pollution degree	2
Protection category	IP54
Tolerable loading referring to humidity	according to EN 61131-2
Voltage of insulation	≥500 V
Dimensions (W / H / D in mm)	93 / 93 / 55

Signal name	Description
Digital_In_Ch	digital input channel
Analog_In_Ch	analog input channel
24V AC/DC ext.out	power supply, generated of external voltage, positive
0V ext.out	power supply, generated of external voltage, negative
24V AC/DC ext.in	input for external power supply, positive
0V ext.in	input for external power supply, negative
ASi+	power supply, generated of ASi, positive
ASi-	power supply, generated of ASi, negative

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Double-deck terminal block, 2 x 4/5/6/7 poles (pitch 5 mm)	
General	
Nominal cross section	2.5 mm ²
Conductor cross section	
Conductor cross section solid	0.8 ... 2.5 mm ²
Conductor cross section flexible	0.8 ... 2.5 mm ²
Conductor cross section flexible, with ferrule	without plastic sleeve: 0.25 ... 2.5 mm ² with plastic sleeve: 0.25 ... 1.5 mm ²
2 conductors with same cross section, stranded, with TWIN ferrules	–
AWG	28 ... 12
Stripped insulation length	6 mm

Programming:			
Analog inputs 0 ... 10V (0 ... 10.000 dec.)			
AI2	AI1	-	-
Analog value 2 ¹	Analog value 1 ¹	-	-
Digital inputs			
D1	D0	-	-
Digital_In_Ch2	Digital_In_Ch1	-	-

¹ 1V ≈ 1000dec.

Accessories:

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