

AS-i Module for building services engineering

AS-i module for building service engineering

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

1 AB Slave

The outputs are powered out of AS-i or out of 24V AC/DC (switchable)

Housing with external fastening tabs



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

The AS-i analog slave BW2537 is a 2I analog module with two additional binary switching inputs and meets the requirements of the new AS-i Specification 3.0.

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 AS-i 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 AS-i 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
AS-i	
Profile	S-7.A.5
ID-Code	A _{hex}
ID2-Code	5 _{hex}
IO-Code	7 _{hex}
Address	1 AB Slave
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
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 AS-i/AUX (switchable)
Sensor supply	short-circuit and overload protected (if supplied out of AS-i) 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

AS-i Module for building services engineering

Article no.	BW2537
Range of value	0 ... 10.000 dec.
Display	
LED ASI (green)	voltage at the AS-i clamps
LED FLT/FAULT (red)	AS-i 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 AS-i, positive
ASI-	power supply, generated of AS-i, negative

Connection	
Terminal A	Terminal B
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	
10	
Switch position	
INT	Voltage supply out of AS-i
EXT	Voltage supply out of external 24V AC/DC
Adressing socket	
ADDR	Connection for AS-i programming device

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

¹ 1V ≈ 1000dec.