ASi Module for building services engineering

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2 analog outputs 0 ... 10V
2 digital outputs

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

Used e.g. for heating/cooling ceilings

Housing with external fastening tabs

Article no. BW2536: ASi module for building services engineering, with 2 analog outputs 0 ... 10V and 2 digital outputs

The ASi analog slave BW2536 is a 2A-module with two additional binary switching outputs and meets the requirements of ASi Specification 3.

The connection of actuators via cage clamp terminals. The power supply of the outputs 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.

Article no.	BW2536
Connection	
Connection	cage clamp terminals
ASi	
Profile	S-7.A.5
ID-Code	A_{hex}
ID2-Code	5_{hex}
IO-Code	7_{hex}
Operating voltage	30 V (20 … 31.6 V)
Current input EXT max.	<40 mA
Current input INT max.	<140 mA
AUX	
Voltage max.	24 V AC/DC
Output	
Analog outputs	2
Range value analog outputs	0 … 10 V DC
Digital outputs	2, AC/DC (see table)
Power supply	out of ASi/AUX (switchable)
Output	short-circuit and overload protected (if supplied out of ASi) according to EN 61131-2
Current at switch position EXT	≤10 mA per analog-OUT (0 °C … 55°C) ≤200 mA per digital-OUT (0°C … 55°C) **in total:** (digital + analog + supply) ≤1,6 A
Current at switch position INT	≤10 mA per analog-OUT (0 °C … 55 °C) ≤20 mA per digital-OUT (0 °C … 55 °C) **in total:** (digital + analog + supply) ≤100 mA (≤45°C) ≤90 mA (45 °C … 55 °C)
Resolution	16 Bit/1 mV
Range of value	0 … ±10.000 dec. (see table)

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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 O1, O2 (yellow)	state of the digital outputs (Out 1 / Out 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

Analog value[1] 1 / 2	Analog_Out_Ch 1 / 2	Digital_Out_Ch 1 / 2
10.000	10V	on
9.000	9V	
…	…	
1.000	1V	
0	0V	off
-1.000	1V	
...	...	
-9.000	9V	
-10.000	10V	

1 set are all integer values between +10.000 and -10.000

Pin assignment

Signal name	Explanation
Digital Out Ch1, Digital Out Ch2	digital output x
Analog Out Ch1, Analog Out Ch2	analog output x
24 V_{out}	power supply, out of external voltage 24V AC/DC or out of ASi, positive pole
0 V_{out}	power supply, out of external voltage 24V AC/DC or out of ASi, negative pole
ASi +, ASi -	connection to ASi bus
24 $V_{ext.in}$, 0 $V_{ext.in}$	connection for external power supply 24V AC/DC (AUX)
n.c.	not connected

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Terminal connections				
Connection	**Terminal A**	**Connection**	**Terminal B**	
1	0 V_{out}	**11**	24 $V_{ext.in}$	
2	0 V_{out}	**12**	24 $V_{ext.in}$	
3	Digital Out Ch2	**13**	0 $V_{ext.in}$	
4	Digital Out Ch1	**14**	0 $V_{ext.in}$	
5	Analog Out Ch2, 0...10 V	**15**	ASi +	
6	Analog Out Ch1, 0...10 V	**16**	ASi +	
7	24 V_{out}	**17**	ASi -	
8	24 V_{out}	**18**	ASi -	
9	0 V_{out}			
10	0 V_{out}			
ADDR	connection for ASi addressing device			
Switch				
INT	power supply out of ASi			
EXT	external power supply 24 V AC/DC