




(figure similar)

Figure	Type	Inputs analog	Outputs analog	Input voltage (sensor supply) ⁽¹⁾	Output voltage (actuator supply) ⁽²⁾	ASi connection ⁽³⁾	ASi address ⁽⁴⁾	Article no.
	IP65, 8 x PG	4 x Pt100	-	out of ASi	-	ASi profile cable	1 single address	BWU2241

- (1) **Input voltage (sensor supply)**
Inputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs shall not be connected to earth or to external potential.
- (2) **Output voltage (actuator supply)**
Outputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, outputs shall not be connected to earth or to external potential.
- (3) **ASi connection**
Inputs are supplied by ASi as well to AUX (auxiliary 24 V power) is either made via yellow ASi profile cable with piercing technology or via M12 socket (in IP20 via clamps).
- (4) **ASi address**
AB address (max. 62 AB addresses/ASi network), 2 AB addresses (max. 31 modules with 2 AB addresses), Single addresses (max. 31 Single addresses/ASi network), mixed use allowed (upon request, ASi nodes are available with specific ASi address profiles).

Article no.	BWU2241
General data	
Device type	Input
Connection	
Periphery connection	cage clamp terminals
ASi connection	via ASi substructure module
ASi	
Profile	S-7.3.E, ID1=F (default)
Address	Single address (up to 31)
Required Master profile	≥ M3
Since ASi specification	2.1
Operating voltage	30 V _{DC} (20 ... 31,6 V)
Max. current consumption	< 80mA
AUX	
Voltage	-
Max. current consumption	-
Input	
Number	4 x Pt100
Resolution	16 Bit/0,1°C
Range of value	-2000 ... +8500 dec.
Internal resistance	-
Max. input voltage	-
Max. input current	-
Voltage supply	out of ASi
Power supply of attached sensors	-

Article no.	BWU2241
Environment	
Applied standards	EN 60529 EN 61000-6-3 EN 61000-6-2
Operating altitude	max. 2000 m
Operating temperature	0°C ... +55 °C (up to max. +70 °C) ⁽¹⁾
Storage temperature	-25°C ... +85°C
Housing	plastic, housing for DIN-rail mounting
Pollution degree	2
Protection category	IP65
Voltage of insulation	≥ 500V
Dimensions (W / H / D) in mm	90 / 80 / 70

(1) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

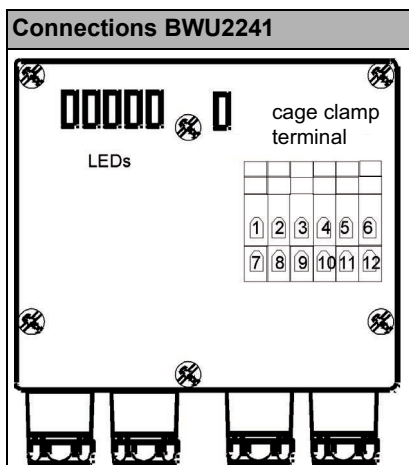
Programming

Bit setting	BWU2241
P0:	
0: 60 Hz filter in A/D converter active 1: 50 Hz filter in A/D converter active	•
P1:	
0: channel 2 is not projected 1: channel 2 is projected	–
A peripheral fault can be released through channel X (bit combination P1 and P2)	•
P2:	
1: peripheral fault is indicated 0: peripheral fault is not indicated	–
A peripheral fault can be released through channel X (bit combination P1 and P2)	•
P3:	
0: 3 wire-mode 1: 2 wire-mode	•

Combination of input bits P1 and P2					
BWU2241					
peripheral fault released through channel					
P1	P2	c.1	c.2	c.3	c.4
0	0	on	off	off	off
0	1	on	on	off	off
1	0	on	on	on	off
1	1	on	on	on	on

Programming notice:				
Article no.	ID-Code	ID1-Code	ID2-Code	IO-Code
BWU2241	3 _{hex}	F _{hex} (default)	E _{hex}	7 _{hex}

UL-specifications (UL508)	
BWU2241	
External protection	An isolated source with a secondary open circuit voltage of ≤30 V _{DC} with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.
In general	UL mark does not provide UL certification for any functional safety rating or aspects of the above devices.



Terminal assignment:

1	Channel 1+
2	Channel 1 Sense -
3	Channel 1 -
4	Channel 2+
5	Channel 2 Sense -
6	Channel 2 -
7	Channel 3+
8	Channel 3 Sense -
9	Channel 3 -
10	Channel 4+
11	Channel 4 Sense -
12	Channel 4 -

LEDs:

LED PWR (green)	ASi voltage o.k.
LED FAULT (red)	communication error or peripheral fault
LED Analog 1 (green)	state of channel 1
LED Analog 2 (green)	state of channel 2
LED Analog 3 (green)	state of channel 3
LED Analog 4 (green)	state of channel 4

Measuring range:

-200 °C ... +850 °C

NOTICE: 1, 4, 7, 10 are internally connected

Accessories:

- ASi substructure module to connect 1 ASi flat cable, 1 flat cable for additional supply (art. no. BW1181)
- ASi substructure module to 1 ASi round cable, 1 round cable for additional supply (art. no. BW1183)
- ASi substructure module to connect 2 ASi flat cables (art. no. BW1180)
- ASi substructure module to connect 2 ASi round cables (art. no. BW1182)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4708)