

# 24 Volt AS-i Gateways in Stainless Steel

## 24 Volt AS-i:

- The devices can be operated directly on a 24 V (PELV) power supply.
- With integrated data coupling coils and adjustable self-resetting fuses optimized for safe use also of powerful 24 V power supplies.

## Available fieldbus interfaces:

- EtherNet/IP + Modbus/TCP in one device


## Recognition of duplicate AS-i addresses

## AS-i Noise Detector integrated



(figure similar)



Figure	Type	Model	Fieldbus interface <sup>(1)</sup>	Number of AS-i networks, number of AS-i Master <sup>(2)</sup>	Recognition of duplicate AS-i addresses <sup>(3)</sup>	AS-i fault detector <sup>(4)</sup>	Programming in C <sup>(5)</sup>	Article no.
	24 Volt AS-i Gateway	Gateway	EtherNet/IP + Modbus TCP	1 AS-i network, 1 AS-i Master	yes	yes	no	<b>BWU3050</b>

**(1) Fieldbus interface**

Communication interface between fieldbus and gateway: interfaces for standardized fieldbus systems in industrial automation.

**(2) Number of AS-i networks, number of AS-i Master**

"Single Master": 1 AS-i network, 1 AS-i Master.

**(3) Recognition of duplicate AS-i addresses**

Detects whether the same address has been assigned to two AS-i slaves. Frequent error when using a handheld addressing device.

**(4) AS-i fault detector**

Checks the AS-i line for interference effects such as noise, external voltages, ...

**(5) Programming in C**

Using a C-program offers the possibility to run mini-PLC functions with a gateway.

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<b>Article no.</b>	<b>BWU3050</b>
<b>Interface</b>	
Fieldbus interface	EtherNet/IP + Modbus TCP (RJ-45) 2 x RJ-45, integrated 2-Port-Switch Ethernet + Modbus TCP acc. to IEEE 802.3
Baud rates	10/100 MBaud
Function	Device Level Ring (DLR) (Ethernet/IP only)
Card slot	chip card for storage of configuration data
<b>AS-i</b>	
AS-i specification	3.0
Cycle time	150 $\mu$ s * (number of slaves + 2)
Operating voltage	24 V <sub>DC</sub> (20 ... 31,6 V) (PELV voltage)
Operating current	approx. 250 mA
Current per AS-i network	max. 4 A
Length of AS-i cable	with 24 V standard power supply: max. 50 m with 30 V AS-i power supply: max. 100 m
<b>Display</b>	
LCD	menu, AS-i indication of slave addresses, error messages in plain text
LED power (green)	power ON
LED net (green)	EtherNet communication active
LED config error (red)	configuration error
LED U AS-i (green)	AS-i voltage o.k.
LED AS-i active (green)	AS-i normal operation active
LED prg enable (green)	automatic address programming enabled
LED prj mode (yellow)	in configuration mode
<b>UL-specifications (UL508)</b>	
External protection	An isolated source with a secondary open circuit voltage of $\leq 30$ V <sub>DC</sub> 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.
<b>Environment</b>	
Applied standards	EN 60529 EN 61000-6-2 EN 61000-6-4
Operating altitude	max. 2000 m
Operating temperature	0 °C ... +55 °C
Storage temperature	-25 °C ... +85 °C
Housing	Stainless Steel, for DIN rail mounting
Pollution Degree	2
Protection category	IP20
Tolerable loading referring to humidity	according to EN 61131-2
Maximum tolerable shock and vibration stress	according to EN 61131-2
Voltage of insulation	$\geq 500$ V
Weight	500 g
Dimensions (W / H / D in mm)	85 / 120 / 83

Article no.	BWU3050
Redundant power supply out of AS-i: all fundamental functions of the device remain available even in case of power failure in one of the two AS-i networks	-
Current measurement of the AS-i circuits	-
Self-resetting fuses	•
Adjustable fuses	-
AS-i earth fault monitor distinguishes between AS-i cable and sensor cable	-
In version 1 gateway, 1 power supply for 2 AS-i circuits: only 1 Gateway + 1 AS-i power supply for 2 AS-i networks	•

### Accessories:

- Diagnostic Software (art. no. BW2902)
- PROFINET Master Simulator (art. no. BW3035, BW3057)
- PROFIBUS Master Simulator (art. no. BW1131, BW1257)
- Power supplies, e.g.: AS-i power supply, 4 A (art. no. BW1649), AS-i power supply, 8 A (art. no. BW1997)  
(further power supply units can be found at [www.bihl-wiedemann.de/en/products/accessories/power-supplies](http://www.bihl-wiedemann.de/en/products/accessories/power-supplies))
- Control III, Programming in C (art. no. BW2582)