

ASi-5/ASi-3 EtherNet/IP + Modbus TCP-Gateway in stainless steel

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New standard ASi-5

ASi-5 master and ASi-3 master in one device

OPC UA server and integrated web server for simplified diagnostics

2 ASi-5/ASi-3 Master, EtherNet/IP + Modbus TCP device
• switch integrated

Duplicate ASi address recognition

ASi Earth Fault Detector integrated

ASi Noise Detector integrated

Optional Control III, programming in C



(figure similar)



Figure	Type	Model	Fieldbus interface ⁽¹⁾	Number of ASi networks, number of ASi Master ⁽²⁾	1 power supply, 1 gateway for 2 ASi networks, inexpensive power supplies ⁽³⁾	Diagnostic and configuration interface ⁽⁴⁾	Recognition of duplicate ASi addresses ⁽⁵⁾	ASi fault detector ⁽⁶⁾	Prog. in C ⁽⁷⁾	Art. no.
	EtherNET/IP + Modbus TCP, ASi-5 / ASi-3	Gateway	EtherNet/IP + Modbus TCP, OPC UA	2 ASi networks, 2 ASi-5/ASi-3 masters	yes, max. 8 A/ASi network	Ethernet fieldbus, Ethernet diagnostic	yes	yes	optional	BWU4258

(1) Fieldbus interface

Communication interface between fieldbus and gateway: interfaces for standardized fieldbus systems in industrial automation.
Ethernet/IP+ Modbus TCP ASi Gateway: interface for a Ethernet/IP+ Modbus TCP fieldbus
OPC UA server: interface for OPC UA communication.

(2) Number of ASi networks, number of ASi Master

"Double Master": 2 ASi networks, 2 ASi-5/ASi-3 Masters.

(3) 1 power supply, 1 gateway for 2 ASi networks, inexpensive power supplies

"yes, max. 8 A/ASi network": Cost-effective power for 2 ASi networks with 1 power supply (optionally supply of multiple Single Gateways by 1 power supply). Operation with short cable lengths with standard 24 V power supply possible.

(4) Diagnostic and configuration interface

"Ethernet fieldbus + Ethernet diagnostic": Access to ASi Master and Safety Monitor with Bihl+Wiedemann software by using the Ethernet diagnostic interface or Ethernet fieldbus interface

The latest version of the device description file of the gateway is available in the "Downloads" section of the respective device.

(5) Recognition of duplicate ASi addresses

Detects whether the same address has been assigned to two ASi nodes. Frequent error when using a hand held addressing device.

(6) ASi fault detector

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

(7) Programming in C

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

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Article no.	BWU4258
Fieldbus interface	
Type	EtherNet/IP + Modbus TCP acc. to IEEE 802.3 2 x RJ-45, integrated 2-Port-Switch,
Baud rate	10/100 MBaud
OPC UA interface	OPC UA server + web server
Function	Device Level Ring (DLR) (Ethernet only)
Variably configurable Assembly Objects	yes
Card slot	chip card (512 KB) for storage of configuration data
Diagnostic interface	
Type	Ethernet; RJ-45 acc. to IEEE 802.3
Baud rate	10/100 MBaud half duplex/full duplex
OPC UA interface	OPC UA server + web server
ASi	
ASi specification	ASi-3 + ASi-5
Number of ASi networks, num- ber of ASi Master	2 ASi networks, 2 ASi-5/ASi-3 masters
Cycle time	Cycle time ASi-3 (variable): 150 μ s * (number of ASi-3 nodes + 2)
	Cycle time ASi-5 (constant): 1,27 ms for 384 bits input data + 384 bits output data
Operating current	approx. 250 mA
Current per ASi network	max. 8 A
ASi Power24V capability ⁽¹⁾	yes
Display	
LCD	menu, indication of ASi addresses and error messages in plain text
LED power (green)	power on
LED net (green)	Ethernet network active
LED config error (red)	configuration error
LED U ASi (green)	ASi voltage o.k.
LED ASi active (green)	ASi normal operation active
LED prg enable (green)	automatic addresses programming enabled
LED prj mode (yellow)	configuration mode active
Environment	
Applied standards	EN 60529 EN 61000-6-2 EN 61000-6-4 EN 61131-2
Operating altitude	max. 2000 m
Ambient temperature	-25 °C ... +55 °C (no condensation permitted)
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	625 g
Dimensions (W / H / D in mm)	85 / 127 / 148

⁽¹⁾ **ASi Power24V**

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

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	BWU4258
Current measurement of the ASi circuits	•
Self-resetting adjustable fuses	•

Accessories:

- ASi-5 Bus Termination, IP67 (art. no. BWU4705)
- Chip card, memory capacity 512 kB (art. no. BW4055)
- Bihl+Wiedemann Suite - Software for Configuration, Diagnostics and Commissioning (art. no. BW2902)
- Power supplies, e.g.: 30 V power supply, 4 A, 1 phase (art. no. BW4218), 30 V power supply, 8 A, 1 phase (art. no. BW4219), 30 V power supply, 8 A, 3 phases (art. no. BW4220), 30 V Power Supply, 16 A, 1 phase (art. no. BW4221), 30 V Power Supply, 16 A, 3 phases (art. no. BW4222) (for further power supply units visit www.bihl-wiedemann.de/en/products/accessories/power-supplies)