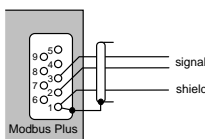# AS-i/Modbus Plus Gateway

**AS-i Gateway
to Modbus Plus**

**AS-i Master
Modbus Plus node**

Advanced AS-i diagnostics

AS-i specification 2.0

Function

The AS-i/Modbus Plus Gateway serves to connect the Actuator-Sensor-Interface to a hierarchically higher Modbus Plus network. The Gateway acts as a complete Master for the AS-i and as a node for Modbus Plus. All AS-i functions can be called via the Modbus Plus network. As with all Masters of Bihl+Wiedemann, commissioning, debugging and setting up of the AS-i parameters can be accomplished with the use of two push-buttons, the LCD display and the LEDs directly on the system, but it can also be handled via Modbus Plus. Advanced AS-i diagnostics allows to detect occasional occurring configuration errors and to judge the quality of the AS-i communication are implemented.

Art. no.	BWU1091
Operating current	Master power supply N Approx. 70 mA out of the AS-i circuit Approx. 150 mA at 18 V DC out of power supply
Operating voltage	24 V DC (18-31,6 V DC)
Serial interface	Modbus Plus
Baud rates	1 MBit/s
AS-i Master profile	M1
AS-i cycle time	150 µs*(Number of Slaves + 1)
Displays	
LCD	Displaying slave addresses and error messages
LED green (power)	Power on
LED green (Modbus Plus)	Network Indicator (diagnosis LED)
LED red (config error)	Configuration error
LED green (U AS-i)	AS-i voltage OK
LED green (AS-i active)	AS-i normal operation active
LED green (prg enable)	Automatic address programming enabled
LED yellow (prj mode)	The Master is in configuration mode
Push-buttons	2 (mode/set)
Voltage of insulation	≥ 500 V
EMC directions	EN 50082, EN 50081
Operating temperature	0°C … +55°C
Storage temperature	-25°C … +85°C
Housing	Housing for DIN-rail mounting
Dimensions (L, W, H)	75 mm, 100 mm, 110 mm
Protection category (EN 60529)	Housing IP40 Terminals IP20

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