AS-i/Modbus Plus Gateway

**Bihl
+ Wiedemann**

Automatisierungstechnik

**AS-i Gateway
to Modbus Plus**

**AS-i Master
Modbus Plus node**

Advanced AS-i diagnostics

signal
shield
Modbus Plus

CE
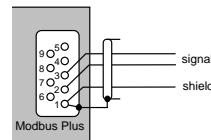
Function

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.

Specification 2.1	Art. no. BWU1583	
Operating current	master power supply A approx. 200 mA out of AS-i circuit	
Operating voltage	AS-i voltage 30 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	$\geq$ 500 V	
EMC directions	EN 50082, EN 50081	
Ambient 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 (DIN 40 050)	housing IP40 terminals IP20	