

# AS-i 3.0 PROFIBUS Gateways in Stainless Steel

Recognition of duplicate AS-i addresses

AS-i Earth Fault Detector integrated

AS-i Noise Detector integrated



BW1653 / BW1654 / BW1655



<b>Article no.</b>	<b>BW1653 BW1654 BW1655</b> Class 1 Div. 2 (Group A, B, C & D, T-Code 4)
<b>Interface</b>	
PROFIBUS interface	gemäß IEC 61158 / IEC 61784-1
Baud rates	9,6 Kbaud up to 12 000 Kbaud, automatic recognition
DP functions	imaging of the AS-i slaves as I/O Data of the PROFIBUS complete diagnosis and configuration via the DP Master
<b>AS-i</b>	
Cycle time	150 µs * (number of slaves + 2)
Operating voltage	AS-i voltage 30 V DC
<b>Display</b>	
LCD	menu, AS-i indication of slave addresses, error messages in plain text
LED power	power ON
LED PROFIBUS	PROFIBUS Master recognized
LED config error	configuration error
LED U AS-i	AS-i voltage o.k.
LED AS-i active	AS-i normal operation active
LED prg enable	automatic address programming enabled
LED prj mode	master is in configuration mode
<b>Environment</b>	
Applied standards	EN 61000-6-2 EN 61000-6-4
Housing	Stainless Steel, for DIN rail mounting
Ambient temperature	0 °C ... +55 °C
Storage temperature	-25 °C ... +85 °C
Protection category DIN EN 60529	IP20
Maximum tolerable shock and vibration stress	according EN 61131-2
Voltage of insulation	≥ 500 V
Dimensions (W / H / D in mm)	75 / 120 / 83
Weight	460 g

Article no.	Number AS-i Master	Duplicate addresses inspector	AS-i Detector	Programming and diagnosis interface	Safety Monitor integrated	Preprocessing	AS-i Spec.
<b>BW1653</b>	1 Master	yes	yes	RS232	no	no	3.0
<b>BW1654</b>	2 Master	yes	yes	RS232	no	no	3.0
<b>BW1655</b>	2 Master out of 1 power supply	yes	yes	RS232	no	no	3.0

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Operating current				
Article no.	Master power supply, max. 200 mA out of AS-i circuit 1 (ca. 70 mA ... 200 mA), max. 200 mA out of AS-i circuit 2 (ca. 70 mA ... 200 mA); in sum max. 270 mA	Master power supply, ca. 200 mA out of AS-i circuit 1 ca. 70 mA out of AS-i circuit 2	Version „1 gateway, 1 power supply for 2 AS-i networks“, approx. 250 mA (PELV voltage)	Master power supply, ca. 200 mA out of AS-i circuit
BW1653	–	–	–	•
BW1654	–	•	–	–
BW1655	–	–	•	–

Article no.	BW1653 BW1654	BW1655
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 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	–	•

## AS-i 3.0 from ID no. 12003 (see lateral label)

BWU1653, BWU1654, BWU1655

Currently supplied devices correspond as standard AS-i 3.0.

### Accessories:

- Software for diagnostics, service and approval measurements (art. no. BW2902)
- Power Supply 4 A (art. no. BW1649) / 8 A (art. no. BW1593)
- AS-i Power Supply Decoupling Unit (art. no. BW1943)
- PROFIBUS DP master simulator (art. no. BW1257)
- Control III, Programming in C (art. no. BW2582)