



AS-Interface gateway VBG-PB-K20-DMD-BV

- Connection to PROFIBUS DP
- 2 AS-Interface networks
- PROFIBUS DP V1 support
- Easy commissioning and fault diagnosis via LEDs and graphic display
- Earth fault detection
- AS-Interface noise detection

PROFIBUS Gateway, double master for 2 AS-Interface networks



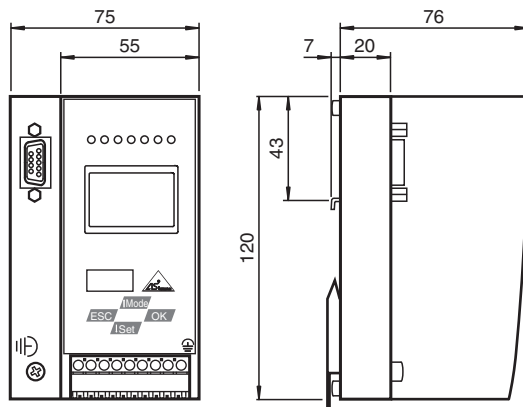
Function

The VBG-PB-K20-DMD-BV is a PROFIBUS Gateway with 2 AS-Interface masters in accordance with AS-Interface Specification 3.0 in IP20. The design is especially suitable for use in the switch cabinet.
 The gateway is a modular PROFIBUS slave. This means that the user can use the PROFIBUS configuration tool to specify what data will be transferred via the PROFIBUS. This makes it possible to adjust the amount of data to be transferred via PROFIBUS.
 In addition, this gateway supports acyclical communication of the PROFIBUS DP V1. These acyclical services can be used to access a mailbox in the gateway that provides access to all the data made available by the AS-Interface/PROFIBUS Gateway.
 A push button can be used to accept the target configuration and to adjust the PROFIBUS address and baud rate. There are 7 LEDs on the front panel, showing the current status of the AS-Interface line.
 In the case of the AS-Interface Gateway with graphical display, the AS-Interface circuit can be placed in service and the test of the connected periphery can be kept entirely separate from the commissioning of the PROFIBUS and the programming. On-site operation with the aid of the graphical display and 4 push buttons makes it possible to show all functions on the display that are covered by the AS-i Control Tools software for other AS-Interface masters.

PLC functionality

Optionally the gateway is also available with PLC-functionality. Therefore you can order a code key VAZ-CTR additionally.

Dimensions



Technical Data

General specifications

AS-Interface specification	V3.0
PLC-Functionality	activateable
Earth fault detection	EFD integrated
EMC monitoring	integrated
Diagnostics function	Extended function via display

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data

UL File Number	E223772	
Indicators/operating means		
Display	Illuminated graphical LC display for addressing and error messages	
LED PROFIBUS	PROFIBUS master detected; LED green	
LED AS-i ACTIVE	AS-Interface operation normal; LED green	
LED CONFIG ERR	configuration error; LED red	
LED PRG ENABLE	autom. programming; LED green	
LED POWER	voltage ON; LED green	
LED PRJ MODE	projecting mode active; LED yellow	
LED U AS-i	AS-Interface voltage; LED green	
Switch SET	Selection and setting of a slave address	
OK button	Mode selection traditional-graphical/confirmation	
Button MODE	Mode selection PRJ-operation/save configuration/cursor	
ESC button	Mode selection traditional-graphical/cancel	
Electrical specifications		
Insulation voltage	U_i	$\geq 500 \text{ V}$
Rated operating voltage	U_e	from AS-Interface
Rated operating current	I_e	$\leq 180 \text{ mA}$ from AS-Interface
Interface		
Interface type	RS-485	
Protocol	PROFIBUS DP V1	
Transfer rate	9.6 kBit/s ... 12 MBit/s , Automatic baud rate detection	
Connection		
PROFIBUS	Sub-D interface	
AS-Interface	spring terminals, removable	
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU	EN 62026-2:2013	
Standard conformity		
Electromagnetic compatibility	EN 61326	
Degree of protection	EN 60529:2000	
AS-Interface	EN 62026-2:2013	
Ambient conditions		
Ambient temperature	0 ... 55 °C (32 ... 131 °F)	
Storage temperature	-15 ... 75 °C (5 ... 167 °F)	
Mechanical specifications		
Degree of protection	IP20	
Mass	420 g	
Construction type	Low profile housing , Stainless steel	

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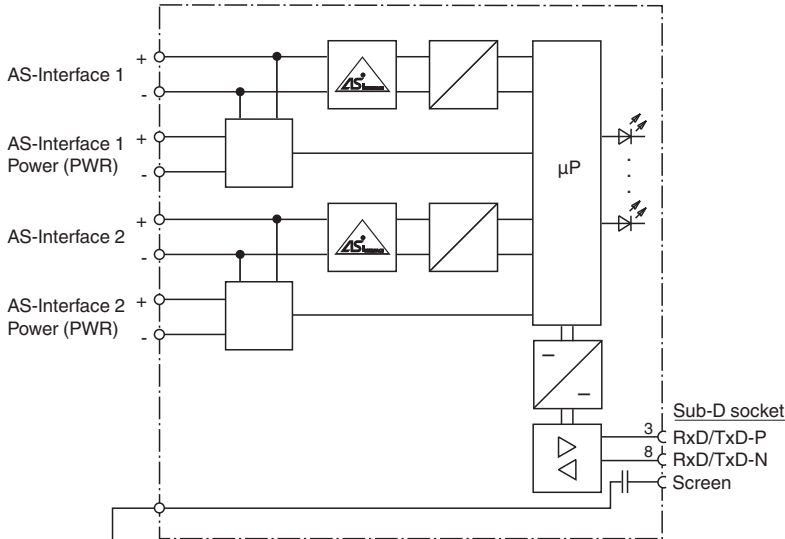
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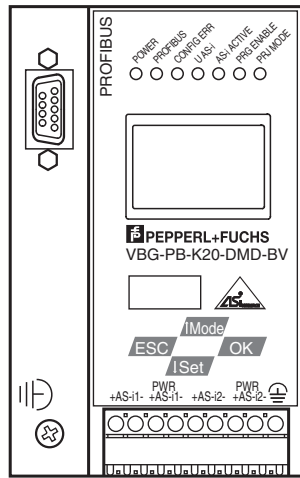
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Connection



AS-Interface circuit 1 and 2 are supplied from different power supplies. The gateway is supplied from circuit 1. At the cable for power supply no slaves or repeaters may be attached. At the cable for AS-Interface circuit no power supplies or further masters may be attached.

Assembly



Accessories

	VAZ-SW-ACT32	Full version of the AS-I Control Tools including connection cable
	VAZ-PB-SIM	PROFIBUS master simulator
	VAZ-PB-DB9-W	PROFIBUS Sub-D Connector with switchable terminal resistance

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