



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



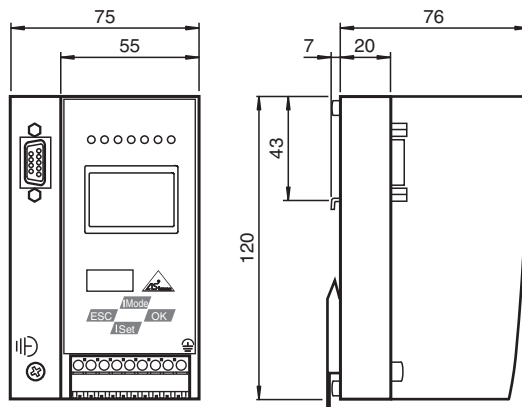
Function

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 PROFIBUSDP 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

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

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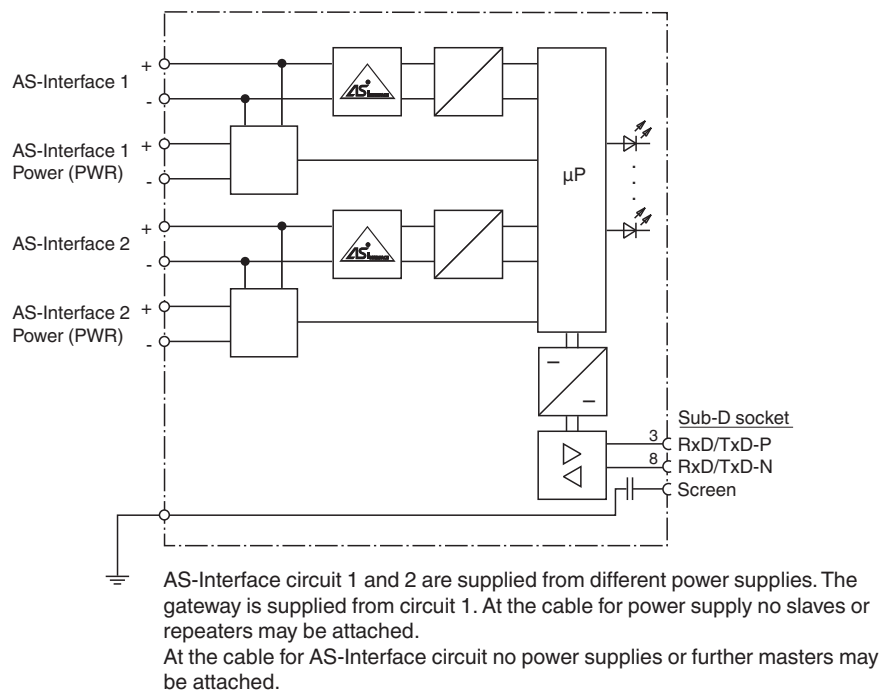
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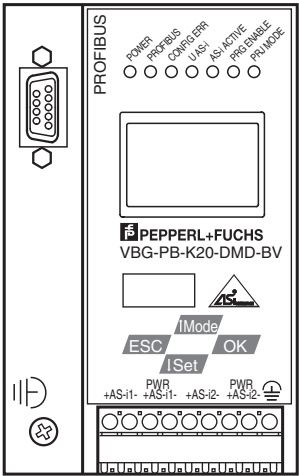
Technical Data

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

Connection



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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