



## AS-Interface gateway

### VBG-PB-K25

- Gateway compliant with AS-Interface specification 3.0
- Compact stainless steel housing
- 7-segment display of addresses and error messages
- Connection to PROFIBUS DP
- Commissioning, without PROFIBUS communication
- All AS-Interface functions possible via PROFIBUS

## PROFIBUS gateway



## Function

The VBG-PB-K25 is a PROFIBUS Gateway in accordance with AS-Interface Specification 3.0 and to IP20. The compact construction makes it particularly suitable for use in the control cabinet.

The VBG-PB-K25 is a modular PROFIBUS Slave. This means, that the PROFIBUS configuration tool can be used to determine which data are to be transferred via PROFIBUS. The quantity of data to be transferred via PROFIBUS can be adapted by this means.

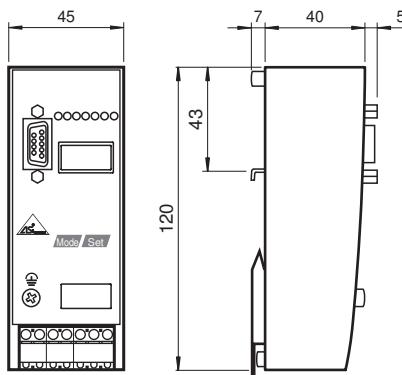
This gateway supports the acyclic communication of the PROFIBUS DP V1. With the help of this acyclic service a mail box in the gateway for both AS-Interface masters can be addressed, via which all data made available by the AS-Interface/PROFIBUS gateway can be accessed. Address assignment, acceptance of the set configuration, the setting of the PROFIBUS and baud rate are possible via push button. 7 LEDs, mounted on the front, indicate the current status of the AS-Interface network.

This gateway can be used to keep the commissioning of the AS-Interface circuit, as well as the test of the connected peripherals, completely separate from the commissioning of the PROFIBUS and the programming. Local operation using the LED display and the 2 buttons enables all the functions to be represented, which are covered by the other gateways via the AS-i Control Tools software.

### PLC functionality

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

## Dimensions



## Technical Data

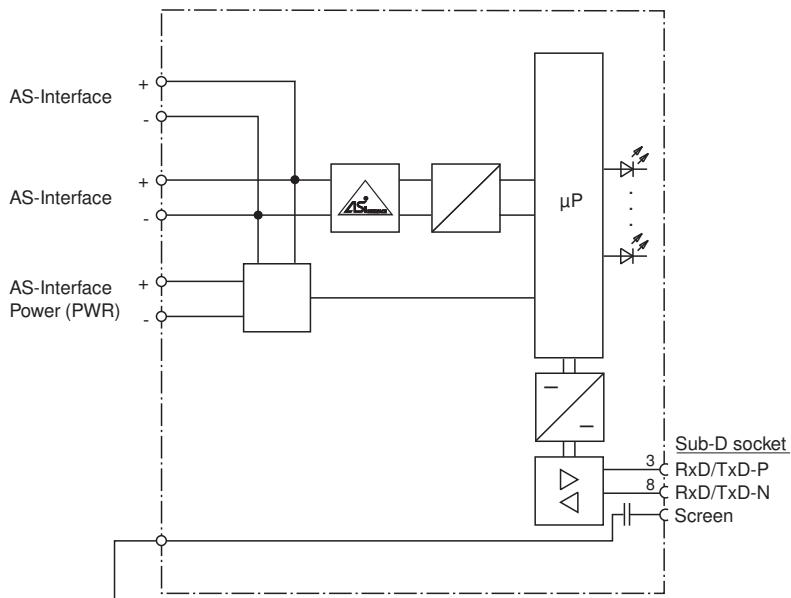
### General specifications

AS-Interface specification	V3.0	
PLC-Functionality	activateable	
Earth fault detection	EFD	integrated
EMC monitoring		integrated
Diagnostics function		integrated
UL File Number	E223772	

## Technical Data

Functional safety related parameters		
MTTF <sub>d</sub>	105 a at 30 °C	
Indicators/operating means		
Display	address display, error message LED display, 3 digits, 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	
Button MODE	Mode selection PRJ-operation/save configuration/cursor	
Electrical specifications		
Insulation voltage	U <sub>i</sub>	≥ 500 V
Rated operating voltage	U <sub>e</sub>	from AS-Interface
Rated operating current	I <sub>e</sub>	≤ 200 mA from AS-Interface
Interface		
Interface type	RS-485	
Protocol	PROFIBUS DP V0 and 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 61000-6-2, EN 61000-6-4	
Degree of protection	EN 60529:2000	
AS-Interface	EN 62026-2:2013	
Shock resistance	EN 61131-2	
Ambient conditions		
Ambient temperature	0 ... 55 °C (32 ... 131 °F)	
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)	
Mechanical specifications		
Housing length	120 mm	
Housing width	45 mm	
Housing depth	40 mm	
Degree of protection	IP20	
Mass	approx. 460 g	
Construction type	Low profile housing, Stainless steel	

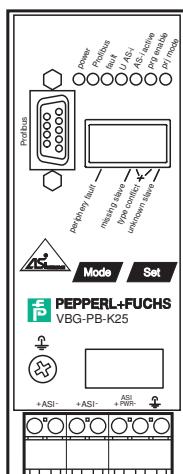
# Connection



At the cable for power supply no slaves or repeater may be attached.

At the cable for AS-Interface circuit no power supplies or further masters may be attached.

## Assembly



## Accessories

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