









## Model number

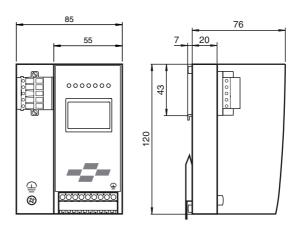
### VBG-DN-K20-D

DeviceNet Gateway

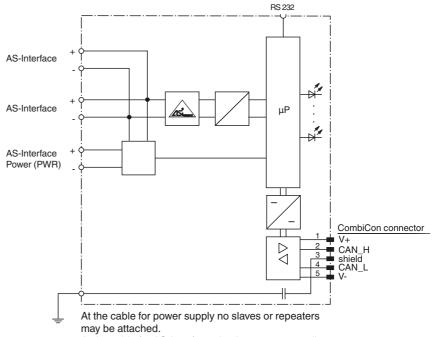
### **Features**

- Gateway compliant with AS-Interface specification 3.0
- · Dublicate addressing detection
- Earth fault detection
- AS-Interface noise detection
- Easy commissioning by graphic display
- Commissioning, locally on the gateway or via AS-i Control Tools software
- Fault diagnosis via LEDs and grafic display
- AS-Interface monitor or extended AS-Interface diagnostic read via display
- Ethernet diagnostic interface

### **Dimensions**

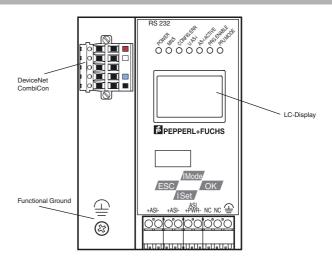


#### **Electrical connection**



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

# **Indicating / Operating means**



Technical data		
General specifications		
AS-Interface specification		V3.0
PLC-Functionality		activateable
Duplicate address detection		from AS-Interface slaves
Earth fault detection	EFD	integrated
EMC monitoring		integrated
Diagnostics function		Extended function via display
UL File Number		E223772
Indicators/operating means		
Display		Illuminated graphical LC display for addressing and error messages
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
LED MNS		Module/net status; LED green/red
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	Ui	≥ 500 V
Rated operating voltage	U <sub>e</sub>	from AS-Interface
Rated operating current	l <sub>e</sub>	≤ 200 mA from AS-Interface
Interface 1		
Protocol		DeviceNet
Interface 2		
Interface type		RS 232, serial
		Diagnostic Interface
Transfer rate		19,2 kBit/s
Connection		
AS-Interface		spring terminals, removable
DeviceNet		5-pin CombiCon connector according to DeviceNet specification
Ambient conditions		
Ambient temperature		0 55 °C (32 131 °F)
Storage temperature		-25 85 °C (-13 185 °F)
Mechanical specifications		
Protection degree		IP20
Mass		520 g
Construction type		Low profile housing , Stainless steel
Compliance with standards and ves	directi	-
Standard conformity		
Electromagnetic compatibility		EN 61000-6-2:2005, EN 61000-6-4:2001, EN 50295:1999

### **Notes**

AS-Interface

Protection degree

Shock and impact resistance

In an AS-Interface network only one device can be operated earth fault detection. If there are many devices in an AS-Interface network, this can lead to the earth fault monitoring response threshold becoming less sensitive.

FN 50295 EN 60529

EN 61131-2

### **Function**

The VBG-DN-K20-D is a DeviceNet gateway compliant with AS-Interface specification 3.0. The variant in an IP20 stainless steel housing is particularly suitable for use in the switching cabinet for snapping onto 35mm mounting

The gateway is a 100% DeviceNet slave (group 2 slave) and, as a listed product, directly addressable through the DeviceNet device manager. Communication between the AS-Interface and DeviceNet is implemented by the gateway with no additional programming effort.

For the AS-Interface gateway with graphic display, the commissioning of the AS-Interface circuit as well as the test of the connected periphery can be completely separated from the commissioning of the DeviceNet as well as the programming. On-site operation using the graphical display and the four buttons make it possible to perform all functions on the display. Address assignment and transfer of the expected configuration can be done with the buttons. There are 7 LEDs on the front panel, showing the current status of the AS-i line. An additional RS 232 socket is available with the option to read out data directly from the gateway via gateway, network and function within the scope of an enhanced on-site diagnosis. Using the AS-i Control Tools package (not included), many functions can be remotely controlled via PC. The gateway draws its power from the AS-

interface cable. The connection of the AS-Interface gateway to the DeviceNet uses the 5pin CombiCon plug according to the Device-Net specification. There are self-opening device terminals available for all other connections.

#### **PLC Functionality**

Furthermore, the gateway can optionally be delivered with PLC functionality. Therefor you can order a code key VAZ-CTR additionally.

### **Accessories**

### VAZ-SW-ACT32

Full version of the AS-I Control Tools including connection cable

**PEPPERL+FUCHS** 

### USB-0,8M-PVC ABG-SUBD9 Interface converter USB/RS 232