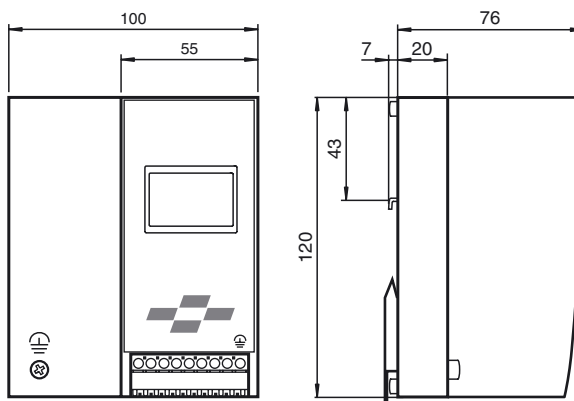
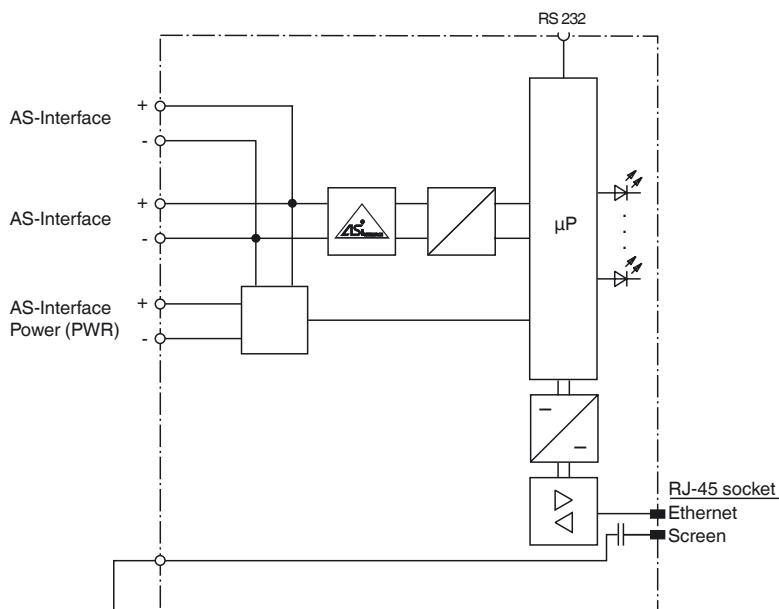




Dimensions



Electrical connection



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.

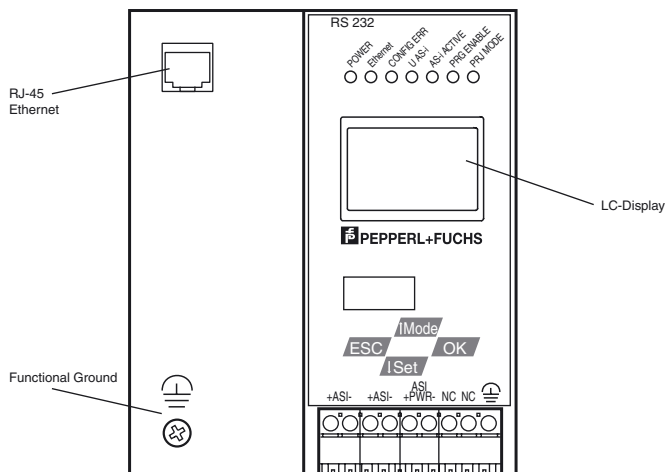
Model number

**VBG-EN-K20-D**  
EtherNet/IP Gateway

Features

- Gateway compliant with AS-Interface specification 3.0
- Duplicate 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 graphic display
- AS-Interface monitor or extended AS-Interface diagnostic read via display
- Ethernet diagnostic interface

Indicating / Operating means



Release date: 2013-12-12 11:21 Date of issue: 2013-12-12 190322\_eng.xml

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

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**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

**Functional safety related parameters**

MTTF <sub>d</sub>	80 a at 30 °C
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**Indicators/operating means**

Display	Illuminated graphical LC display for addressing and error messages
LED ETHERNET	ethernet active; 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 <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 1**

Interface type	RJ-45
Protocol	EtherNet/IP

**Interface 2**

Interface type	RS 232, serial Diagnostic Interface
Transfer rate	19,2 kBit/s

**Connection**

Ethernet	RJ-45
AS-Interface	spring terminals, removable

**Ambient conditions**

Ambient temperature	0 ... 55 °C (32 ... 131 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)

**Mechanical specifications**

Protection degree	IP20
Mass	550 g
Construction type	Low profile housing , Stainless steel

**Compliance with standards and directives**

Standard conformity	
Electromagnetic compatibility	EN 61000-6-2:2005, EN 61000-6-4:2001, EN 50295:1999
AS-Interface	EN 50295
Protection degree	EN 60529
Shock and impact resistance	EN 61131-2

**Notes**

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.

**Function**

The VBG-EN-K20-D is an Ethernet/IP gateway in accordance with AS-Interface specification 3.0. The design in stainless steel with IP20 is particularly suited for use in switching cabinets for snap on mounting on the 35 mm mounting rail.

In the AS-Interface gateway with graphical display the commissioning of the AS-Interface circuit and the test of the connected periphery devices can be separated completely from the commissioning of the Ethernet and from programming. Operation on site via the graphic display and the 4 keys makes it possible to represent all functions on the display. The address allocation and acceptance of the target configuration can be achieved via the keys. 7 LEDs fitted to the front panel indicate the actual state of the AS-Interface branch. An additional RS 232 jack provides the option to read data about gateway, network and function directly from the gateway as part of an extended on site diagnosis. The gateway is supplied with power from the AS-Interface cable.

Using the software AS-i Control Tool (not included in the scope of delivery) many functions can be remotely controlled via PC.

Each gateway is supplied with a unique MAC-ID and supports the allocation of a static (via keypad) and dynamic IP address (DHCP, Dynamic Host Configuration Protocol).

**PLC Functionality**

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

**Accessories****VAZ-SW-ACT32**

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

**USB-0,8M-PVC ABG-SUBD9**

Interface converter USB/RS 232