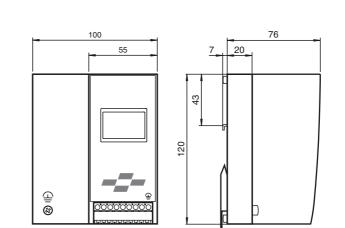
AS-Interface gateway

VBG-EN-K20-D





Electrical connection

Dimensions

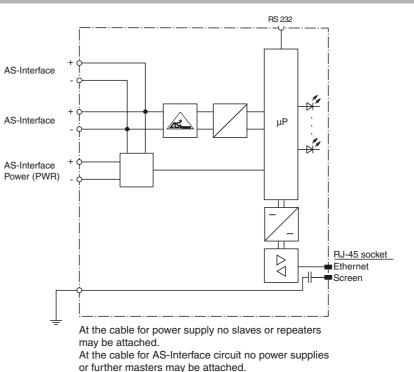
Model number

VBG-EN-K20-D

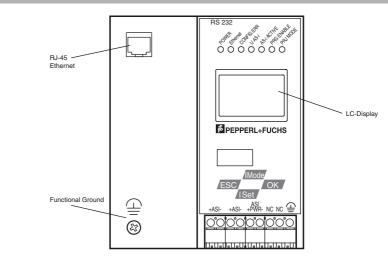
Ethernet/IP Gateway

Features

- Gateway compliant with AS-Interface ٠ specification 3.0
- Double adressing detection of von • AS-Interface slaves
- Earth fault detection .
- AS-Interface EMC monitoring ٠
- Easy commissioning by graphic dis-• play
- Commissioning, locally on the gate-٠ way or via AS-i Control Tools software
- Fault diagnosis via LEDs and grafic ٠ display
- AS-Interface monitor or extended AS-٠ Interface diagnostic read via display
- Parallel diagnostic interface for moni-• toring during operation



Indicating / Operating means





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AS-Interface gateway

VBG-EN-K20-D

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 param	eters	
MTTF _d		80 a at 30 °C
Indicators/operating means		
Display		Illuminated graphical LC display for addressing and error me sages
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	Ui	≥ 500 V
Rated operational voltage	U _e	from AS-Interface
Rated operational current	l _e	≤ 200 mA from AS-Interface
Interface 1		
Interface type		RJ-45
Protocol		Ethernet/IP
Interface 2		
Interface type		RS 232, serial Diagnostic Interface
T ()		
Transfer rate		19,2 kBit/s
Transfer rate Connection		19,2 kBit/s
		19,2 kBit/s RJ-45
Connection		
Connection Ethernet		RJ-45
Connection Ethernet AS-Interface		RJ-45
Connection Ethernet AS-Interface Ambient conditions		RJ-45 spring terminals, removable
Connection Ethernet AS-Interface Ambient conditions Ambient temperature		RJ-45 spring terminals, removable 0 55 °C (32 131 °F)
Connection Ethernet AS-Interface Ambient conditions Ambient temperature Storage temperature		RJ-45 spring terminals, removable 0 55 °C (32 131 °F)
Connection Ethernet AS-Interface Ambient conditions Ambient temperature Storage temperature Mechanical specifications		RJ-45 spring terminals, removable 0 55 °C (32 131 °F) -25 85 °C (-13 185 °F)
Connection Ethernet AS-Interface Ambient conditions Ambient temperature Storage temperature Mechanical specifications Protection degree		RJ-45 spring terminals, removable 0 55 °C (32 131 °F) -25 85 °C (-13 185 °F) IP20
Connection Ethernet AS-Interface Ambient conditions Ambient temperature Storage temperature Mechanical specifications Protection degree Mass	l directi-	RJ-45 spring terminals, removable 0 55 °C (32 131 °F) -25 85 °C (-13 185 °F) IP20 550 g Low profile housing , Stainless steel
Connection Ethernet AS-Interface Ambient conditions Ambient temperature Storage temperature Mechanical specifications Protection degree Mass Construction type Compliance with standards and	l directi-	RJ-45 spring terminals, removable 0 55 °C (32 131 °F) -25 85 °C (-13 185 °F) IP20 550 g Low profile housing , Stainless steel
Connection Ethernet AS-Interface Ambient conditions Ambient temperature Storage temperature Mechanical specifications Protection degree Mass Construction type Compliance with standards and ves Standard conformity	l directi-	RJ-45 spring terminals, removable 0 55 °C (32 131 °F) -25 85 °C (-13 185 °F) IP20 550 g Low profile housing , Stainless steel
Connection Ethernet AS-Interface Ambient conditions Ambient temperature Storage temperature Mechanical specifications Protection degree Mass Construction type Compliance with standards and ves	l directi-	RJ-45 spring terminals, removable 0 55 °C (32 131 °F) -25 85 °C (-13 185 °F) IP20 550 g Low profile housing , Stainless steel
Connection Ethernet AS-Interface Ambient conditions Ambient temperature Storage temperature Mechanical specifications Protection degree Mass Construction type Compliance with standards and ves Standard conformity Electromagnetic compatibility	l directi-	RJ-45 spring terminals, removable 0 55 °C (32 131 °F) -25 85 °C (-13 185 °F) IP20 550 g Low profile housing , Stainless steel EN 61000-6-2:2005, EN 61000-6-4:2001, EN 50295:1999

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. 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

USB-0,8M-PVC ABG-SUBD9

Interface converter USB/RS 232

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