



## Model number

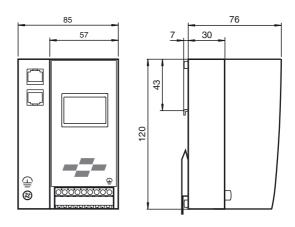
## VBG-ENX-K20-DMD-EV

EtherNet/IP + MODBUS/TCP com unit with data decoupling, double master for 2 AS-Interface networks

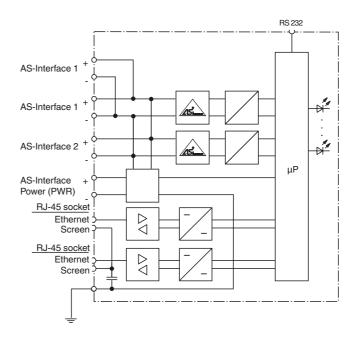
### **Features**

- Connection to Ethernet Modbus TCP/IP
- 2 AS-Interface networks
- Easy commissioning and fault diagnosis via LEDs and graphic display
- Dublicate addressing detection
- Integrated data decoupling
- Integrated switch allows line topology
- Integrated webserver
- Earth fault detection
- AS-Interface noise detection
- Ethernet diagnostic interface
- DLR technology supports ring topology

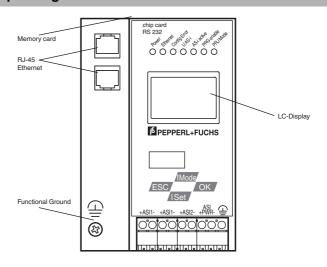
## **Dimensions**



## **Electrical connection**



# **Indicating / Operating means**



## **Notes**

2

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-ENX-K20-DMD-EV is a EtherNet/IP gateway with a double master according to AS-Interface specification 3.0.

The design of the K20 in stainless steel with IP20 is particularly suited for use in switching cabinets for snap on mounting on the 35 mm

The gateway in accordance with the AS-Interface specification V 3.0 is used to connect AS-Interface systems to a higher-level net. It acts as a master for the AS-Interface segment and as a slave for the higher-level net. During cyclic data exchange, the digital data of an AS-Interface segment is transferred. Analog values as well as the complete command set of the new AS-Interface specification are transferred using a command interface.

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.

With the graphical display, the commissioning of the AS-Interface circuits and testing of the connected peripherals can take place completely separately from the commissioning of the higher-level network and the programming. With the 4 switches, all functions can be controlled and visualized on the display.

An RJ-45 Ethernet port provides a way of exporting data relating to the gateway, network and operation directly from the gateway for extended local diagnosis purposes.

Via the RJ-45 Ethernet diagnostic interface, up to 31 devices can establish a secure cross-communication.

The device has a card slot for a memory card for the storage of configuration data.

The integrated data decoupling allows to operate 2 AS-Interface circuits with just a standard power supply.

The device level ring protocol DLR increases the reliability of a ring topology at the device level, thus optimizing the machine running times.

The redundant power supply guarantees that the double master remains in function and is diagnosticable, when a failure of a power supply unit in one of the two AS-interfaces circles occures. Also communication with the superior field bus is not disturbed by the failure of a power supply.

### **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

PEPPERL+FUCHS

USB-0,8M-PVC ABG-SUBD9 Interface converter USB/RS 232 254534 2019-11-26 Date of issue: Release date: 2019-11-26 15:12

yed. UL mark does not provide UL certification for any functional

safety rating or aspects of the device.