



AS-Interface gateway VBG-DN-K20-DMD-BV

- Gateway compliant with AS-Interface specification 3.0
- 2 AS-Interface networks
- 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

DeviceNet Gateway, double master for 2 AS-Interface networks



Function

The VBM-CTR-K20-R2 is a stand-alone master in AS-Interface specification 3.0 with IP20. The construction type is especially suited for use in a switch cabinet.

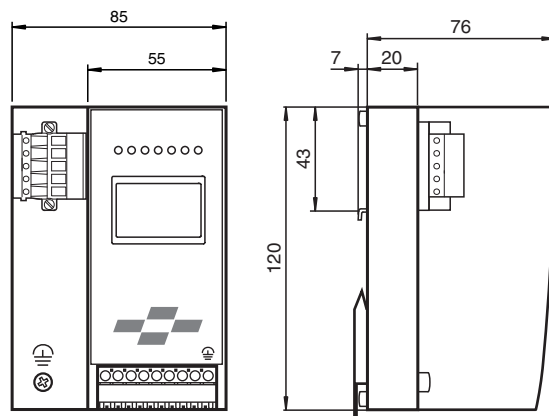
Address allocation, acceptance of the target configuration and setting the baud rate can be managed via buttons. There are 7 LEDs on the front panel, showing the current status of the AS-Interface line.

In the AS-Interface master with graphical display the commissioning of the AS-Interface circuit and the test of the connected periphery devices can be separated completely overriding bus systems and from programming. The on-site operation via the graphic display and the four push buttons make it possible to show all of the functions on the display, which, for all other AS-Interface masters, are covered by the software AS-Interface control tools.

PLC Functionality

For PLC functionality the VBM-CTR-K20-R2 provides 16 kB program memory, 8 kB data memory, 1024 counters and 1024 timers. This is sufficient capacity to process all data arriving at the AS-Interface. The master can, therefore, also be operated as "stand-alone". The program processing for 1000 word commands is approx. 2 ms. The programming language is based on STEP5. In the extended mode the AS-Interface CTRL functions (upload, download, start, stop, read and write marker) can be utilized.

Dimensions



Technical Data

General specifications

AS-Interface specification	V3.0
PLC-Functionality	activateable
Earth fault detection	EFD integrated
EMC monitoring	integrated
Diagnostics function	Extended function via display

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

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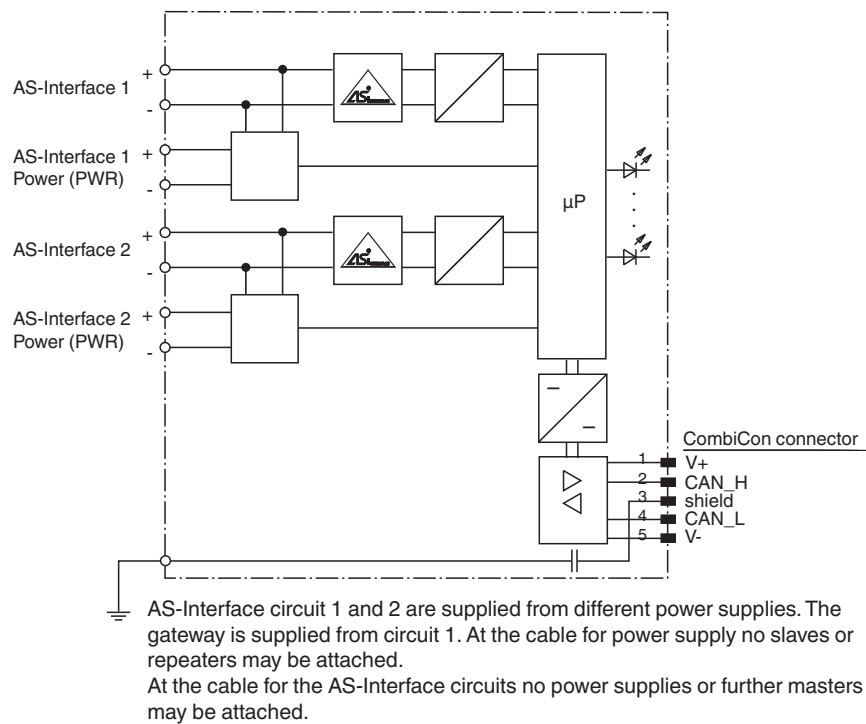
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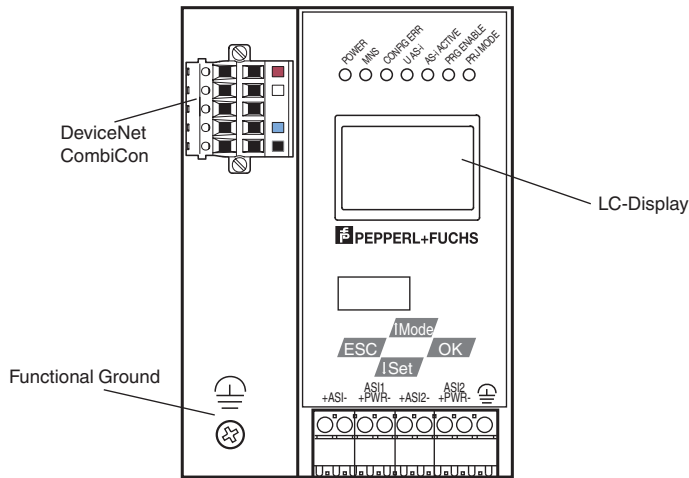
Technical Data

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	U_i	$\geq 500 \text{ V}$
Rated operating voltage	U_e	from AS-Interface
Rated operating current	I_e	$\leq 200 \text{ mA}$ from AS-Interface circuit 1 $\leq 70 \text{ mA}$ from AS-Interface circuit 2
Interface		
Protocol		DeviceNet
Connection		
AS-Interface		spring terminals, removable
DeviceNet		5-pin CombiCon connector according to DeviceNet specification
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 62026-2:2013
Standard conformity		
Electromagnetic compatibility		EN 61000-6-2:2005, EN 61000-6-4:2001, EN 50295:1999
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		
Degree of protection		IP20
Mass		520 g
Construction type		Low profile housing , Stainless steel

Connection



Assembly



Accessories

	VAZ-SW-ACT32	Full version of the AS-I Control Tools including connection cable
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