







Model number

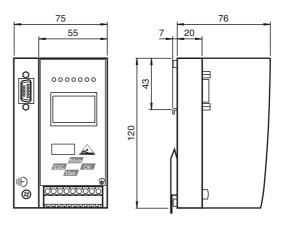
VBM-CTR-K20-R2-ACT32

Packet from the VBM-CTR-K20-R2 master and the VAZ-SW-ACT32 software

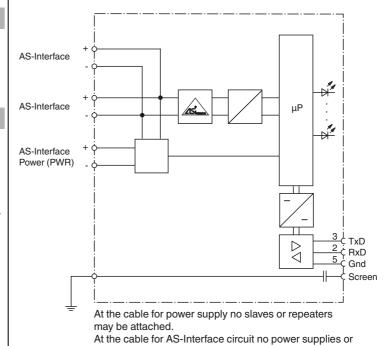
Features

- Stand alone master with PLC functionality and RS 232 interface
- · Large, graphic LCD
- RS 232 diagnosis interface
- Easy commissioning and fault diagnosis via LEDs and graphic display
- Earth fault detection
- AS-Interface noise detection
- AS-i Control Tools Software included as standard

Dimensions

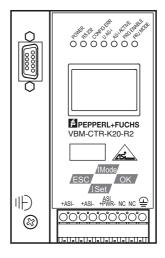


Electrical connection



further masters may be attached.

Indicating / Operating means



Technical data		
General specifications		
AS-Interface specification		V3.0
PLC-Functionality		integrated
Earth fault detection	EFD	integrated
EMC monitoring		integrated
Diagnostics function		Extended function via display
Functional safety related parameter	ters	
MTTF _d		180 a at 30 °C
Indicators/operating means		
Display		Illuminated graphical LC display for addressing and error messages
LED RS 232		interface in operation; 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 operating voltage	U _e	from AS-Interface
Rated operating current	l _e	≤ 150 mA
Interface		
Interface type		RS 232
Transfer rate		1200, 2400, 4800, 9600, 19200, 28800, 38400, 57600 or 11500 Bit/s , Automatic baud rate detection
Cable length		max. 30 m
Connection		
AS-Interface		spring terminals, removable
Serial interfaces		9-pin Sub-D socket
Ambient conditions		
Ambient temperature		0 55 °C (32 131 °F)
Storage temperature		-15 75 °C (5 167 °F)
Mechanical specifications		
Protection degree		IP20
Mass		460 g
Construction type		Low profile housing , Stainless steel
General information		
Scope of delivery		1 VBM-CTR-K20-R2 1x AS-I Control Tools software
Compliance with standards and oves	directi-	
Standard conformity		
Electromagnetic compatibility		EN 61326
AS-Interface		EN 50295

Protection degree

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.

EN 60529

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

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 programm 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.

Software

The AS-i Control Tools software is supplied as full version together with the documentation. The software performs addressing, programming and monitoring of the AS-Interface network. In addition, it contains an editor that creates programs for the integrated PLC functionality. The full version features an expanded diagnostics monitor as well as a large program memory for AS-Interface Control which makes it possible to detect faulty telegrams of slaves.

One connecting cable for the RS 232 interface is also included in delivery.

Accessories

USB-0.8M-PVC ABG-SUBD9 Interface converter USB/RS 232

Matching system components

VBG-RIO-KHD2-R2

Bus Coupler for Allen Bradley Remote I/O

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