







Model Number

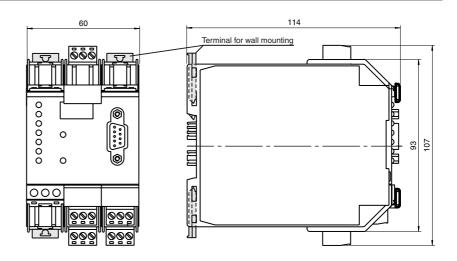
VBM-CTR-KF-R2

AS-Interface master RS 232 cabinet module

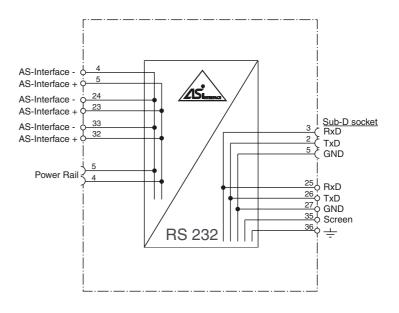
Features

- Stand-alone master with PLC functionality
- Two-digit LC display
- Voltage supply from AS-Interface
- Automatic baud rate detection
- · Programmable slave addresses
- · Display of detected slaves
- Fault diagnosis
- Parameterisation and monitor software
- · Power Rail connection
- RS 232 interface

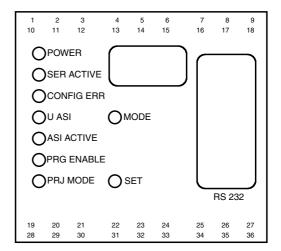
Dimensions



Electrical connection



Indicating / Operating means



Fieldbus standard

Technical data General specifications AS-Interface specification V2.11 Diagnostics function integrated Indicators/operating means Display LC display, 2 digits, 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 ENERGY voltage ON; LED green LED PRJ MODE projecting mode active; LED yellow LED SER ACTIVE interface in operation; LED green LED U AS-i AS-Interface voltage; LED green Switch SET Selection and setting of a slave address **Button MODE** Mode selection/save configuration **Electrical specifications** ≥ 500 V Insulation voltage from AS-Interface Rated operational voltage U_{e} Rated operational current ≤ 150 mA Interface Interface type RS 232 Transfer rate 1200 , 2400 , 4800 , 9600 , 19200 , 38400 or 57600 Bit/s , Automatic baud rate detection Cable length max. 30 m Connection removable coded terminals, Power Rail AS-Interface Ambient conditions 0 ... 55 °C (273 ... 328 K) Ambient temperature -25 ... 70 °C (248 ... 343 K) Storage temperature **Mechanical specifications** Protection degree IP20 Mass 420 q Construction type Low profile housing, plastic Compliance with standards and directives Standard conformity Electromagnetic compatibility IEC 62026-2, EN 61326 Protection degree EN 60529

IEC 62026-2

Function

The VBM-CTR-KF-R2 is a stand-alone master with integrated PLC functionality. The design of this master is ideal for use in a cabinet. Its housing, only 60 mm wide, occupies little space in a cabinet installation. The VBM-CTR-KF-R2 is installed by snapping it onto the 35 mm DIN Rail per EN 50022, with the integrated Power Rail. The AS-Interface signal is transmitted through conductors, which are integrated into the Power Rail. Thus all cabinet modules in KF housing can be connected to the AS-Interface cable by simply snapping them onto the DIN Rail. Removable terminals for leading the AS-Interface cable through the cabinet are available. These terminals are coded and allow "online" maintenance. i. e. while the system is under power. The connection to the AS-Interface power supply is established through these terminals which can also be used for the serial interface. A 9-pin Sub-D connector is also available. Power to the master is supplied by the AS-Interface cable. Two push buttons are used for address assignment of the AS-Interface slaves and acceptance of the desired configuration. In configuration mode, all detected AS-Interface slaves are displayed on the 2-digit LCD. In normal operation, the LCD is blank unless the master detects a faulty AS-Interface slave. There are 7 LEDs on the front panel, showing the current status of the AS-Interface line.

PLC functionality

The VBM-CTR-KF-R2 provides 16 kB of program memory (approx. 2500 single binary commands), 8 kB of data memory, 1024 counters and 1024 timers for PLC functionality. These capacities suffice to process data on the AS-Interface. Thus the master can also be operated in "stand-alone" mode. The program processing time is approximately 1000 word commands every 2 ms. The programming language is based upon the STEP5® programming language.

Software

The AS-i Control Tools software is supplied as restricted version together with the documentation. The software performs addressing, programming and monitoring of the AS-Interface network. In addition, it contains an deditor that creates programs for the integrated PLC functionality. The full version of \$\psi\$ the AS-i Control Tool is available as an 8 accessory and features an expanded diagnostics monitor as well as a larger program memory for AS-Interface Control which makes it possible to detect faulty telegrams of slaves.

Accessories

VAZ-SW-ACT32

AS-Interface software

UPR-05

Universal Power Rail

UPR-E

End cap