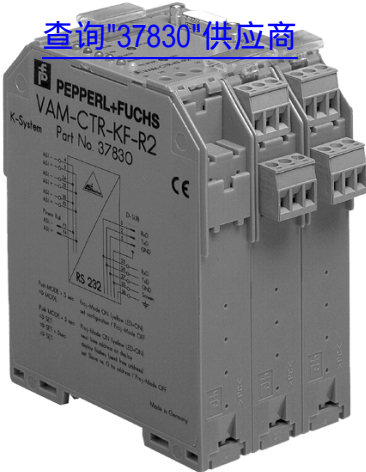


AS-Interface master



Model number

VAM-CTR-KF-R2

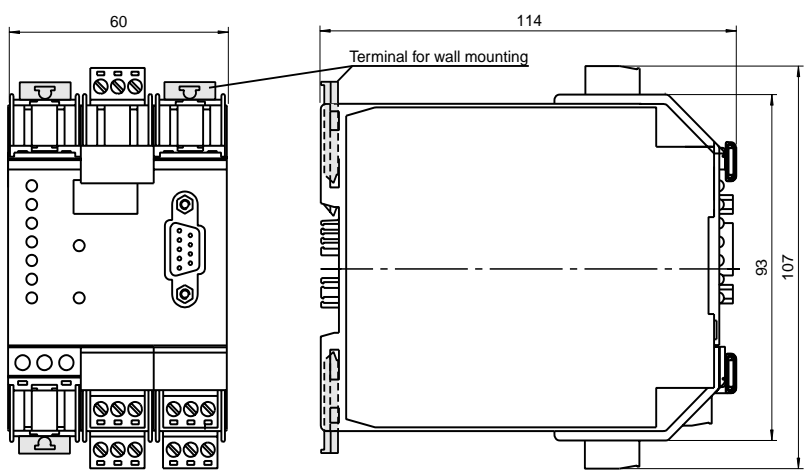
AS-Interface master RS 232 cabinet module



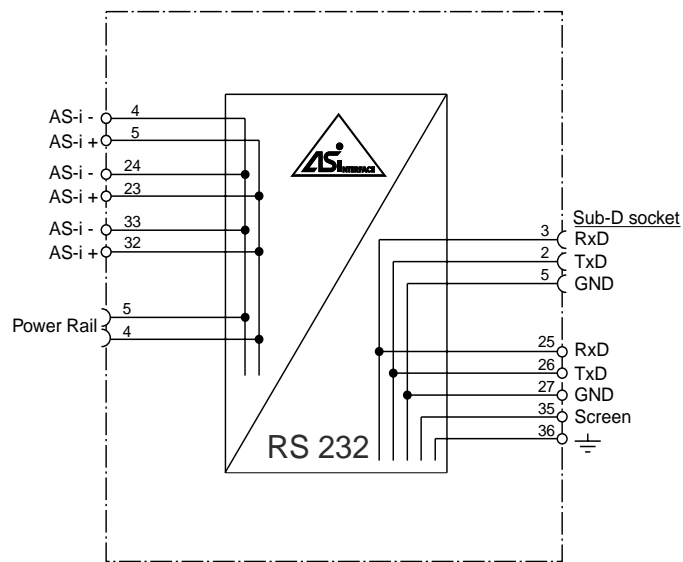
Features

- 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

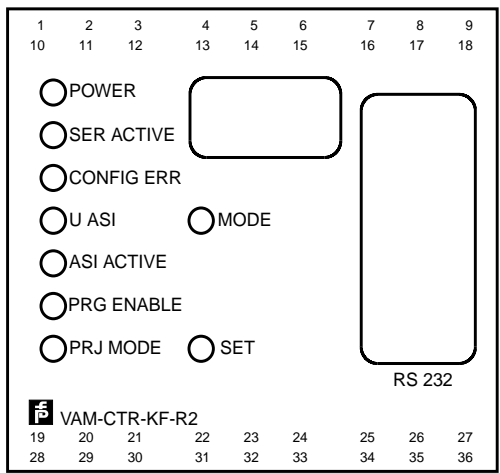
Dimensions



Electrical connection



Indication/operating means





## Technical data

### General specifications

AS-i specification

V2.0

### Interface

Interface type	RS 232
Transfer rate	1200 , 2400 , 4800 , 9600 , 19200 , 38400 or 57600 Bit/s , Automatic baud rate detection

### Indicators/operating means

LC display, two-digit	address display, error message
LED AS-i ACTIVE	AS-i 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-i voltage; LED green
Switch SET	selection and setting of a slave address
Button MODE	mode selection/saving the configuration

### Electrical specifications

Insulation voltage $U_i$	$\geq 500$ V
Rated operational voltage $U_e$	from AS-Interface
Rated operational current $I_e$	$\leq 150$ mA

### Connection type

AS-Interface	removable coded terminals, Power Rail
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### Ambient conditions

Ambient temperature	0 ... 55 °C (273 ... 328 K)
Storage temperature	-25 ... 70 °C (248 ... 343 K)

### Mechanical specifications

Protection degree	IP20 in accordance with EN 60529
Mass	420 g

## Function

The VAM-CTR-KF-R\* 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 VAM-CTR-KF-R\* 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-i 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-i 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-i line.

### PLC Functionality

The VAM-CTR-KF-R\* provides 16 kBytes of program memory, 8 kBytes of main 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.

## VAM-CTR-KF-R2

## Documentation

The documentation includes manuals in German and English. It is available on the Internet and in printed form as a CD-ROM on request.

## 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 editor that creates programs for the integrated PLC functionality. The full version of the AS-i Control Tool is available as an accessory and features an expanded diagnostics monitor as well as a larger program memory for AS-i Control which makes it possible to detect faulty telegrams of slaves.

## Accessories

### VAZ-SW-ACT32

Full version of the AS-i control tools

### UPR-05

Universal Power Rail including aluminium top hat section rail and cover, 2 m long

### UPR-E

End cap for UPR-05

### PR-05

Power Rail with grid, 0.5 m long