

AS-Interface Master



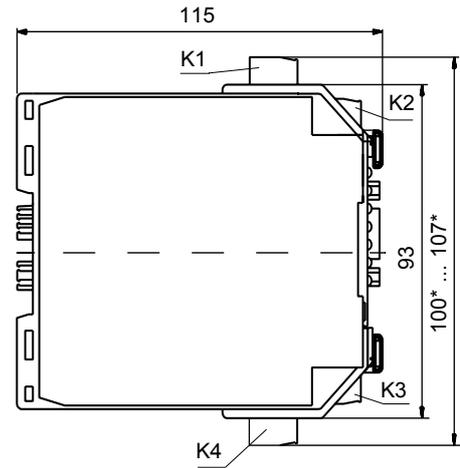
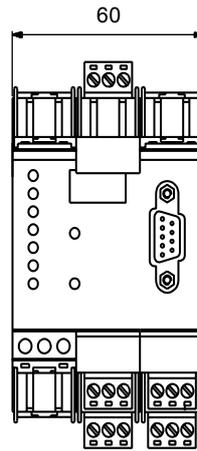
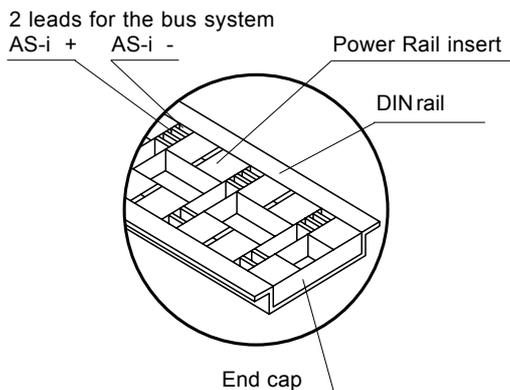
Model Number

Serial AS-Interface master

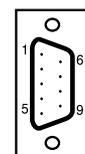
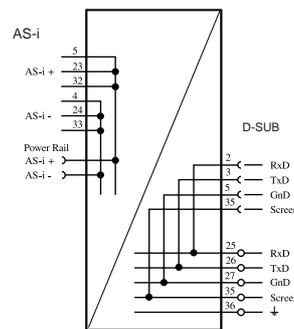
VAM-CTR-KF-R□

Features

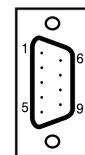
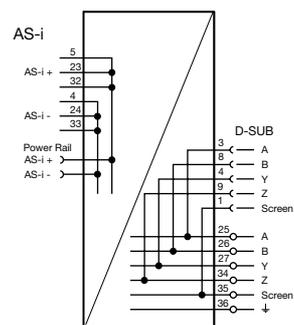
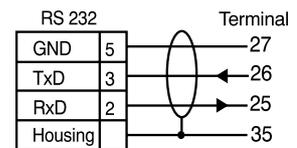
- Stand-alone master with integrated PLC functionality
- Two-digit LCD
- Powered via AS-Interface
- Automatic baud rate detection
- Programs slave addresses via mode/set buttons
- Display of detected slaves
- Error diagnostics via LEDs and LCD
- Programming and monitoring software
- Power Rail connection



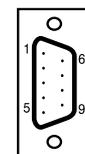
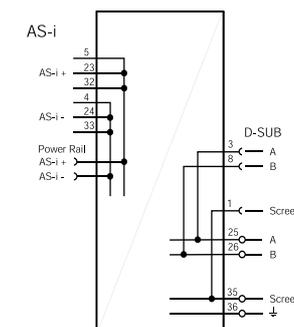
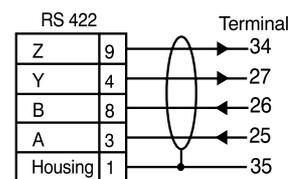
Connection



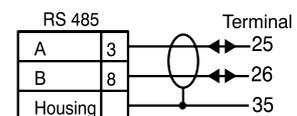
Solderside



Solderside



Solderside



Date of issue 01.03.2000

Technical Data:

Model Numbers	VAM-CTR-KF-R2 (with RS 232-Interface) VAM-CTR-KF-R3 (with RS 422-Interface) VAM-CTR-KF-R4 (with RS 485-Interface)
RS 232C-Interface	baud rate 1200, 2400, 4800, 9600, 19200, 38400 or 57600 baud, automatic detection
Operating voltage U_B	from AS-Interface
Operating current I_e [mA]	≤ 150
Indicators	
Address indication, error signals	LCD, 2 digit
Power ON (power)	LED green
Serial communications active (ser active)	LED green
Configuration error (config err)	LED red
AS-Interface voltage OK (U AS-Interface)	LED green
Normal AS-Interface operation (AS-Interface active)	LED green
Automatic addressing possible	LED green
Projected mode active	LED yellow
Buttons	2 (mode/set)
Isolation voltage U_i [V]	≥ 500
EMC classification	severity 3, EC 801/2-4
Operating temperature t_b [°C]	-25 ... +70 (-13 ... +158 °F)
Storage temperature t_s [°C]	0 ... +55 (+32 ... +131 °F)
Protection (IEC)	IP20
Allowable shock and vibration	screw mounted: $b \leq 30$ g, $T \leq 11$ ms snap-on mounted: $b \leq 15$ g, $T \leq 11$ ms screw mounted: $f \leq 55$ Hz, $a \leq 1$ mm snap-on mounted: $f \leq 55$ Hz, $a \leq 0.5$ mm
Weight [g]	420

Description

The VAM-CTR-KF-R□ is a stand-alone master with integrated PLC functionality. Only 60 mm wide, the space-saving design with an IP 20 rating is ideal for use in an enclosure. The VAM-CTR-KF-R□ master offers all the advantages of the KF housing, such as Power Rail connections and removable terminals. The connection to the AS-Interface power supply and network is established through these removable terminals. The serial connection is established through a 9-pin Sub D connector or through the mechanically keyed, removable terminals.

In configuration mode, all detected AS-Interface slaves are displayed on the two-digit LCD. In normal operation, the LCD is blank unless the master detects a faulty AS-Interface slave. There are seven LEDs on the front panel used for diagnostics.

PLC Functionality

The VAM-CTR-KF-R□ has 16 K program storage, 8 K RAM, 1,024 counters and 1,024 timers for the PLC functionality. The master can be operated in 'Stand-Alone' mode using the integrated PLC functionality, or can be controlled through the serial interface. The program processing time is 2 ms per one thousand commands. The programming language is a structured text format (instruction list).

Software

The software performs the addressing, programming and monitoring of the AS-Interface network. In addition, it contains an editor that creates programs for the integrated PLC functionality. The software also performs a syntax test to ensure the programming commands are correct.

2 software packages are available:

1. AS-Interface SHELL (for MS-DOS)
2. AS-Interface Control Tools (for Windows 3.x and Windows 95)

The full version of the AS-Interface SHELL is included in the package.

The accompanying demo version of the AS-i Control Tool permits a complete commissioning of the AS-i circuit.

The full version of the AS-i Control Tool is available as an accessory and features an extended diagnostic function as well as a larger program memory for AS-i Control.

References

German: Handbuch VAM-CTR-KF-R □

English: Manual VAM-CTR-KF-R □

The documentation and software are included with the unit. When ordering, please specify the language and indicate the desired number of manuals.

Accessories

VAZ-SW-ACT

Full version of the AS-Interface Control Tools.

VAZ-P4-R2

Converter for the direct connection of the VAM-CTR-KF-R4 to an RS 232 port.

UPR-05

Continuous Power Rail including aluminum DIN rail and cover, 2 m long.

UPR-E

End cap for UPR-05.

PR-05

Snap-on Power Rail, 0.5 m long.