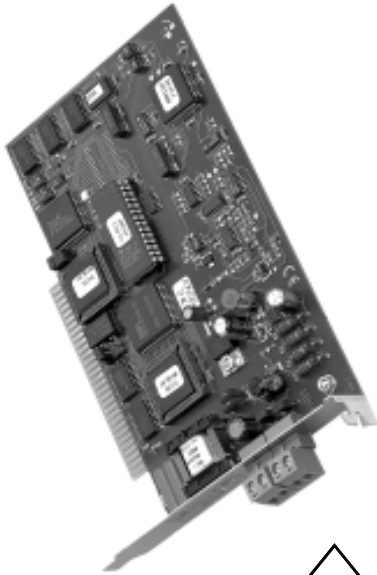


AS-Interface Master

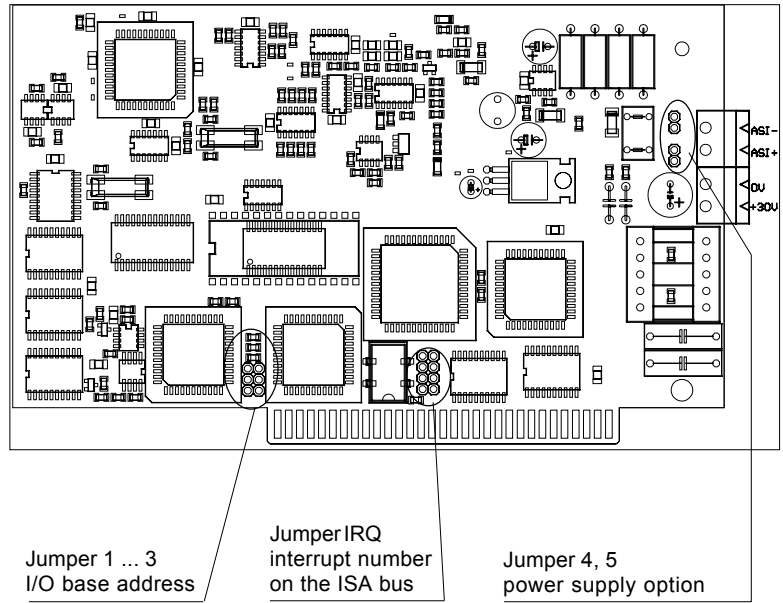


Model Number

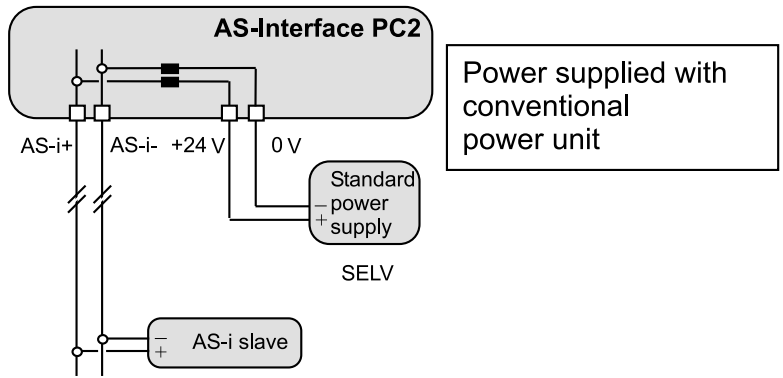
PC card master
VAM-CTR-PC2

Features

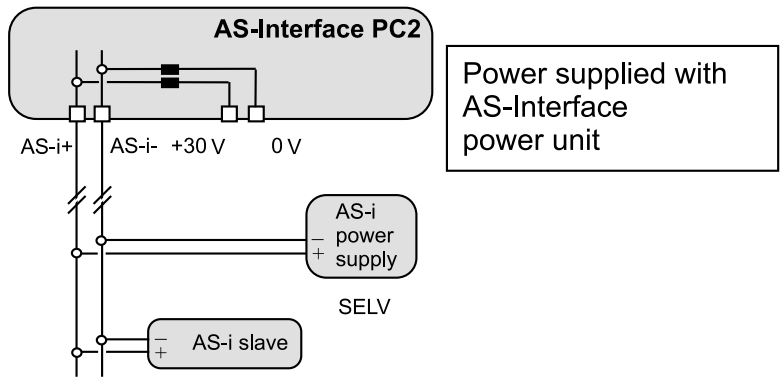
- Stand-alone master with integrated PLC functionality
- Connection to a standard 8-bit ISA slot
- Easy installation
- PLC functionality independent of PC
- Does not require interrupts
- Up to 8 VAM-CTR-PC2 per PC
- Watchdog monitors dual port RAM access



AS-Interface Connection



Power supplied with conventional power unit



Power supplied with AS-Interface power unit

Date of issue 01.03.2000

Technical Data:

Model Number		VAM-CTR-PC2
Interface		8-bit ISA slot
Operating voltage	[V]	5 DC (from PC) and AS-Interface voltage
Operating current I_e	[mA]	≤ 200 from ISA slot, ≤ 70 from AS-Interface
Jumper 1, 2, 3		adjustment of the I/O Addresses
Jumper 4,5	closed	supply of AS-Interface through standard power supply;
	open	supply of AS-Interface with AS-Interface power supply
IRQ Jumper		adjustment of the ISA-bus interrupt number
Isolation voltage U_i	[V]	≥ 500
EMC classification		per EN 50081, EN 50082
Operating temperature t_b	[°C]	0 ... +55 (+32 ... +131 °F)
Storage temperature t_s	[°C]	-25 ... +70 (-13 ... +158 °F)
Protection (IEC)		IP20
Type		short AT card

Description

The VAM-CTR-PC2 is an AS-Interface master with integrated PLC functionality designed for operation on a standard 8-bit ISA slot. The PC2 card does not require any processing power from the PC because the card has its own processor capable of running a control program. The VAM-CTR-PC2 occupies only 3 bytes of the ISA bus I/O area for data exchange. This enables as many as eight VAM-CTR-PC2s to be operated on a single PC. The PC2 card offers a considerable advantage in I/O area usage since most PC cards typically use 2 K. Fast access to the AS-Interface data is guaranteed through the dual port RAM (DPRAM).

The VAM-CTR-PC2 can be operated with an AS-Interface power supply as well as with a standard power supply (24 V DC). A standard power supply is useful for test configurations with few slaves and short cable lengths. When using a standard power supply, jumpers 4 and 5 are used to connect the isolation coils on the card to the AS-Interface network.

When using the 'Stand-Alone' capability of the card, an error on the VAM-CTR-PC2 uses an interrupt on the ISA bus and immediately displays an error message on the monitor. A watchdog can be activated to monitor communications between the AS-Interface master and the PC. In the case of a PC system crash, the AS-Interface master goes 'off-line' and all outputs return to their unenergized state. Windows® 3.x, Windows® 95 and Windows® NT drivers are available.

PLC Functionality

The VAM-CTR-PC2 has 16 K program storage, 8 K RAM, 1024 counters and 1024 timers for the PLC functionality. The master can be operated in 'Stand-Alone' mode using the integrated PLC functionality, or can be controlled through dual port RAM from the PC. 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-PC2

English: Manual VAM-CTR-PC2

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.