Dimensions

Electrical connection

Using plug-in jumpers, it is possible to choose whether the master shall be supplied by AS-Interface-1 circuit (pos.1) or via an own power pade (PELV) (pos. 2).

Model Number

VBG-IP-K5-DM

Ethernet Gateway, double master for 2 AS-Interface networks

Features

*   Gateway according to AS-Interface specifikation 2.1 for up to 62 units
*   Connection to Ethernet TCP/IP
*   1 IP address via boot-up
*   2 AS-Interface networks
*   Commissioning, locally on the gateway or via AS-i Control Tools software
*   All AS-Interface functions possible via Ethernet
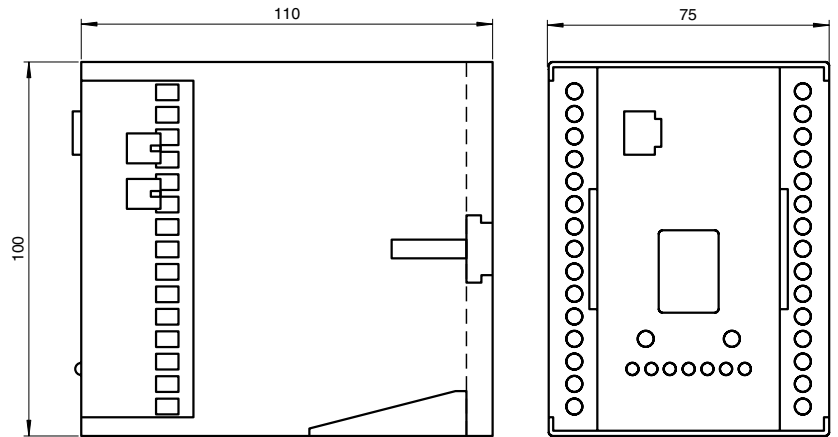*   MODBUS protocol as fieldbus application layer

Function

The VBG-IP-K5-DM is an Ethernet gateway for 2 parallel AS-i lines, which means that the data of 2 AS-i lines can be transmitted via an IP address. Each Ethernet gateway is supplied with a unique MAC-ID. An IP address can be assigned to the gateway by means of this MAC-ID and Bootp.
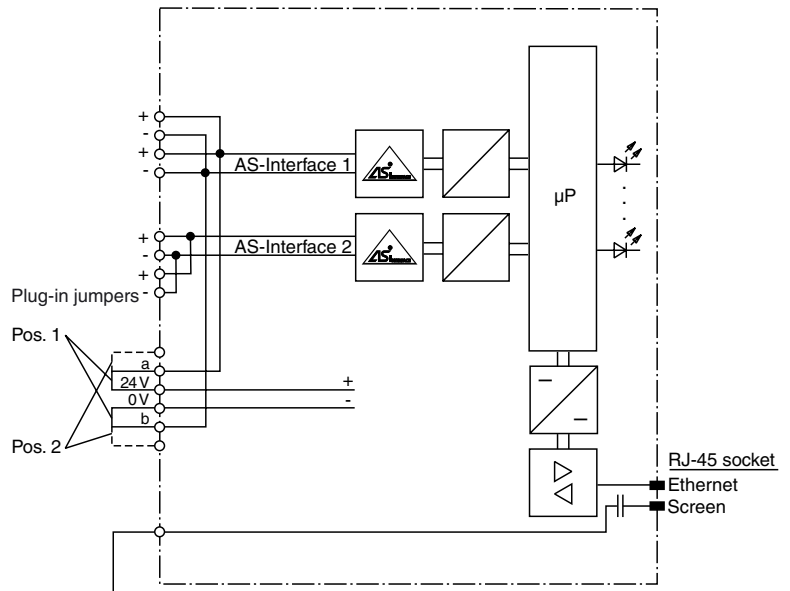
The design of the master is ideal for use in a cabinet.

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 for rapid diagnostics.
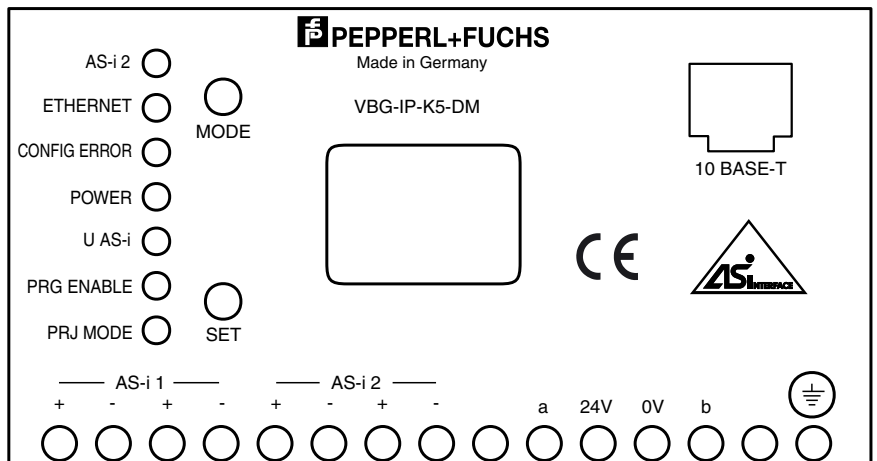
Indicating / Operating means

Technical data

General specifications

AS-Interface specification	V2.11
Diagnostics function	integrated

Indicators/operating means

LED AS-i 2	assignment of display to AS-Interface strand 2; LED green
Display	LC display, 2 digits, for addressing and error messages
LED ETHERNET	ethernet active; 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 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

Insulation voltage	U_i	≥ 500 V
Rated operational voltage	U_e	from AS-Interface or separately
Rated operational current	I_e	≤ 200 mA from AS-Interface

Interface

Protocol	Ethernet via TCP/IP
Interface type	10 Base-T
Transfer rate	10 MBit/s

Connection

Ethernet	RJ-45
AS-Interface	screw terminals

Ambient conditions

Ambient temperature	0 ... 55 °C (273 ... 328 K)
Storage temperature	-25 ... 85 °C (248 ... 358 K)

Mechanical specifications

Protection degree	IP40 (housing), IP20 (terminals)
Mass	420 g
Construction type	Low profile housing , plastic

Compliance with standards and directives

Standard conformity	
Protection degree	DIN 40050

Software

The AS-i Control Tools software is supplied as restricted version together with the documentation and performs the addressing, programming and monitoring of the AS-Interface network. The full version of AS-i Control Tools is available as an 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