

PKV 40 / PKV 50 - ETHERNET CONNECTIVITY FOR THE FIELDLEVEL

- Ethernet to Fieldbus Gateway
- Integrated Web Server
- Runtime engine for IEC 61131 Soft PLCs available
- Open Plattform for own application
- PKV 50 as Field Processor specially for SoftPLC with remanent memory



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PKV 40 - ETHERNET-GATEWAY

PKV 50 - ETHERNET FIELD-PROCESSOR

■ POWERFUL GATEWAY

Inside the PKV 40/PKV 50 you will find our approved Fieldbus master module in combination with a powerful 486 PC (PKV 40) and 586 PC (PKV 50). From standard Gateway functionality to special applications: everything is possible. Develop your own applications on the standard Windows® CE operation system. All information and data from the Fieldbus network is available on Ethernet for visualisation or other functions.

At present there is no Standard for the depiction of the process data at the application say TCP/IP level. Because of this we use the Microsoft® Windows® CE operating system for the PKV 40 / 50 to be flexibly for extensions of functions in form of tasks. The development system is economical to create and many engineers are familiar with the system. Thus, we make all the interfaces available so that the experienced user can also bring his own applications on to the Gateway for execution.

■ INTEGRATED WEB-SERVER

A highlight of the PKV 40 / 50 is the integrated Web Server. HTML pages can be created on a corresponding editor and these can be loaded onto the Gateway. By means of Java Applets, process data can be included. All that is still required is a Web Browser such as Microsoft® Internet Explorer or Netscape® in order to obtain access to the data of the PKV 40 / 50 respectively via the Internet.

■ STANDARD IEC 61131 RUN-TIME

The PKV 50 can be used for standard machine control functions. The 586 processor can run a standard IEC 61131 Run-Time. A special of the PKV 50 is the remanent memory for recording data of the SoftPLC.

■ PROVEN AND CERTIFIED TECHNOLOGY

A communication product is one of the most important products in a machine. You could have the most advanced controller, most advanced drives and motor, but if your communication doesn't work, your machine is not working. We use standard and proven technology. If, for example, an ASIC fails in combination with products from the market leaders, we will not use it. Our protocol stacks are certified by the official labs from the Fieldbus foundations. In addition, we test our product to work with the market leaders. We make sure our products work so your products do work. It's such simple...

■ SAME CONFIGURATION

The PKV 40/50 can be configured using the same standard configuration software from Hilscher. Configure the integrated Web Server, Ethernet interface and also the Fieldbus master with one software tool.

■ OPEN STANDARDS

We do not only support the standard Ethernet functionality but also the latest OPC functionality. With Windows® CE and OPC you will be able to write your own application in no time.

PRODUCT OVERVIEW

PKV 40

| Type | Fieldbus | I/O-Data |
|-------------|--------------|----------|
| PKV 40-ASIM | AS-Interface | 496 Bit |
| PKV 40-COM | CANopen | 7 KByte |
| PKV 40-DNM | DeviceNet | 7 KByte |
| PKV 40-IBM | InterBus | 1 KByte |
| PKV 40-MBP | Modbus Plus | 1 KByte |
| PKV 40-PB | PROFIBUS-DP | 7 KByte |

PKV 50

| Type | Fieldbus | I/O-Data |
|------------|-------------|----------|
| PKV 50-COM | CANopen | 7 KByte |
| PKV 50-DNM | DeviceNet | 7 KByte |
| PKV 50-DPM | PROFIBUS-DP | 7KByte |

TECHNICAL DATA

| Microprocessor | |
|----------------|----------------|
| PKV 40 | PKV 50 |
| 486 / 66 MHz | 586 / 133MHz |
| 4 MByte FLASH | 16 MByte FLASH |
| 8 MByte DRAM | 16 MByte SDRAM |

Operating System

Windows CE V3.0

Ethernet-Interface

| PKV 40 | PKV 50 |
|----------------|------------------|
| Potential free | Potential free |
| 10 MBaud | 100 MBaud |
| 10BASE-T, RJ45 | 100 BaseTX, RJ45 |

Potential free Fieldbus Interface

| PKV 40 | |
|------------------------|-------------|
| AS-Interface/167 kBaud | PKV 40-ASIM |
| ISO 11898 / 1 MBaud | PKV 40-COM |
| ISO 11898 / 500 kBaud | PKV 40-DNM |
| RS422 / 500 kBaud | PKV 40-IBM |
| RS485 / 1 MBaud | PKV 40-MBP |
| RS485 / 12 MBaud | PKV 40-PB |

PKV 50

| | |
|---------------------|------------|
| ISO 11898 / 1 MBaud | PKV 50-COM |
| ISO 11898 / 1 MBaud | PKV 50-DNM |
| RS 485 / 12 MBaud | PKV 50-DPM |

Diagnostic Interface

RS232C, non isolated

Displays

LEDs for system- and communication status

Operating Elements

Switch Start/Stop

Operating Voltage

18 – 30 V / 0,3 A

Operating Temperature

0 °C – 50 °C

Dimension (L x W x H)

105 x 44 x 105 mm

International Protection Class

IP 50

Installation

DIN Rail EN 50022

CE

| | |
|----------|----------------|
| Immunity | EN 50082-2 |
| Emission | EN 55011 cl. B |