



## 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



Hilscher Gesellschaft für Systemautomation mbH  
Rheinstraße 15, D-65795 Hattersheim  
Tel. +49 (0) 6190 /99 07-0, Fax +49 (0) 6190 /99 07-50  
[www.hilscher.com](http://www.hilscher.com), [info@hilscher.com](mailto:info@hilscher.com)

# 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.

## 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

## 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