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Protocol Converter

PROFIBUS
InterBus
CANopen
DeviceNet

- Inexpensive fieldbus connection for devices with serial interface
- Protocol conversion between different standard protocols such as 3964R, RK512, Modbus, Modnet, etc
- Simple implementation of customer-specific conversions
- Configuration via PC
- Loading of the configuration and the firmware via the diagnostic interface
- On-line diagnostic
- Status LEDs
- Robust metal housing for installation on DIN rails

Description

Fieldbus systems are nowadays prescribed for almost all new plants as overall communication systems. For this purpose, only control components with a corresponding connection are utilized. Although many devices possess a serial data interface, they may not have a fieldbus connection. For this purpose, the use of an external Protocol Converter is a simple and quickly realizable solution.

The protocol conversion between different industry protocols, e.g. 3964R, Modbus or Modnet and the fieldbus system can be supplied as standard products. Customer-specific solutions can be realized with moderate effort. Various possibilities are available for this purpose. For instance, the Converter can carry an internal depiction memory of the device to which it is connected, by means of which read and write access to the fieldbus system is possible. Alternatively, the individual telegrams can be converted directly between the individual protocol formats.

The configuration is carried out via the serial diagnostics interface with the aid of a PC. For this purpose the projection and diagnostics Program ComPro is available for simple protocols and Slave connections. The System Configurator SyCon is required if the converter works as Master at the fieldbus. The configuration data are transferred by means of the COM port of the PC to the converter and are stored in a zero-voltage secure manner in a FLASH-EPROM. In the case of an update, the entire Firmware can be loaded in the same manner.

Comprehensive functions are available for diagnostics and start-up. Thus, device conditions and transmission errors are displayed by the LEDs. Further diagnostic functions, especially for testing the fieldbus communication, can be carried out via the PC with the aid of the ComPro or the SyCon.

Technical Data

Fieldbus Connection

Potential-free
See also product overview

Device Interface

Via driver cards PKV 10
Via driver cards PKV 20
Configurable non-isolated PKV 30
See also product overview

Diagnostic Interface

RS232C, non-isolated

Operating Voltage

18 – 30 V/0.2 A

Operating Temperature

0°C – 55°C

International Protection Class

IP 50

Dimensions (L x W x H)

164 x 105 x 80 mm PKV 10
204 x 105 x 80 mm PKV 20
105 x 105 x 80 mm PKV 30

Installation

DIN Rail EN 50022

CE Sign

Product Overview

Type	Fieldbus/ Protocol	Mode	Fieldbus Interface	Device Interface	Configurator	Note
PKV 10	3964R, RK512, Modbus, Modnet	–	CTx-xxx	CTx-xxx	ComPro	Max. 19.2 kBaud
PKV 11	3964R, RK512, Modbus, Modnet	–	CTx-xxx	CTx-xxx	ComPro	Max. 500 kBaud
PKV 20-MBP	Modbus Plus	–	RS485	CTx-xxx	ComPro	
PKV 20-IBM	InterBus	Master	RS422	CTx-xxx	SYCON-IB	
PKV 20-DPM	PROFIBUS-DP	Master	RS485	CTx-xxx	SYCON-PB	
PKV 30-PB	PROFIBUS-FMS	Master	RS485	RS232/RS422/RS485	SYCON-PB	Max. 12 MBaud
PKV 30-DPS	PROFIBUS-DP	Slave	RS485	RS232/RS422/RS485	ComPro	certified
PKV 30-IBS	InterBus	Slave	RS422	RS232/RS422/RS485	ComPro	
PKV 30-COS	CANopen	Slave	ISO 11898	RS232/RS422/RS485	ComPro	
PKV 30-DNS	DeviceNet	Slave	ISO 11898	RS232/RS422/RS485	ComPro	

Related Products

Type	Article
CTG-RS232	Driver card for RS232C, non-isolated
CTF-RS232	Driver card for RS232C, optically isolated
CTF-RS422	Driver card for RS422, optically isolated
CTF-RS485	Driver card for RS485, optically isolated
CTF-20mA	Driver card for 20mA, optically isolated, active or passive
KAB-SRV	Service cable
SYCON-xx	System configurator, single user licence
System package	Documentation and firmware according to the protocol conversion



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