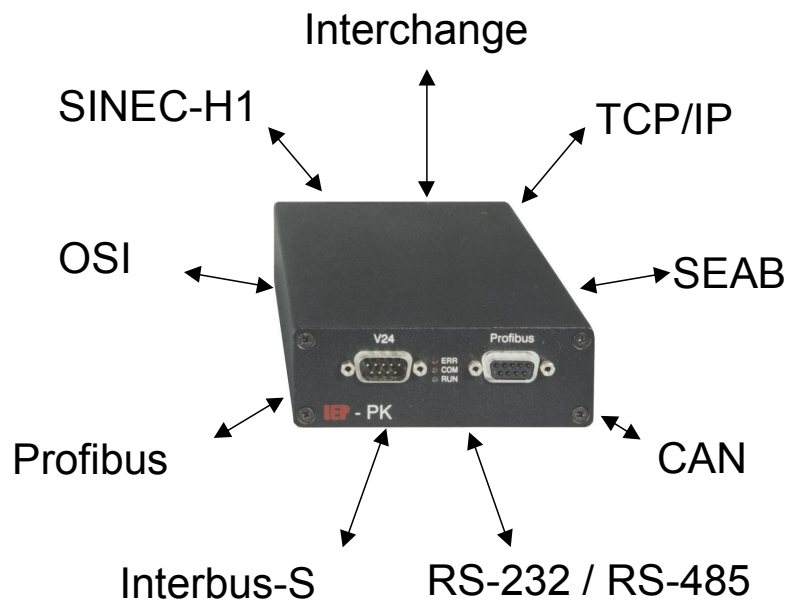


IEP-PK

The family of protocol couplers



Consistent operating is one of the main goals of modern SCADA systems. Vendor independence and an unvarying operating philosophy are trying to assure investments on a long-term basis and to ensure short training periods for the service personnel.

Long lasting manufacturing plants are characterised by large variety of control components used. The deployment of different controls, optimised for the respective purpose, assures low cost and high product quality.

A qualified technical management integrates different systems without renouncement of their specific efficiency.

IEPs process couplers provide standard interfaces both to individual controls and to different SCADA systems. Combining commodity software and free programmability, they allow to preserve proven components despite of changes in the operational and data processing environment.

**Theory
and**

Practice

Coupled

Database

The database is the quintessential point of a process coupler. A unique, internal data base, supporting simple and complex data types, allows to present the same data differently to different SCADA or control systems.

Different data descriptions for different automation systems are not a problem: commodity software for conversion is available, special cases are taken into account by the free programmability.

Server

Connected to different SCADA systems, the process couplers present themselves as servers, just like every other control. They provide access to process data and receive input data and operating commands from the SCADA system.

All commonly used communication protocols of the respective manufacturers are supported.

Client

Connected to different controls, the process couplers present themselves as client, like every other SCADA system. They request process data and transfer operating parameters and commands to the control.

All commonly used communication protocols of the respective manufacturers are supported.

Flexible

The free programmability of the process couplers allows the integration of non-standard components.

Thus also the integration of older systems with proprietary protocols into modern production plants is feasible. Process data, formerly only acquired and processed locally, can be distributed throughout the network to be used by e.g. production steering, quality assurance and archiving.

Scalable

Process couplers are available in a broad range of capabilities and computational power. Starting by simple and economical systems, as shown on the front side, upto multi-processor VME systems: they cover all requirements.

Already in the simple versions, all commonly used physical interfaces (RS-232, RS-422, RS-485, Ethernet) are available and supported by the respective protocols.

More capable systems differ only by the number of available interfaces, the size of the database and the computational power.