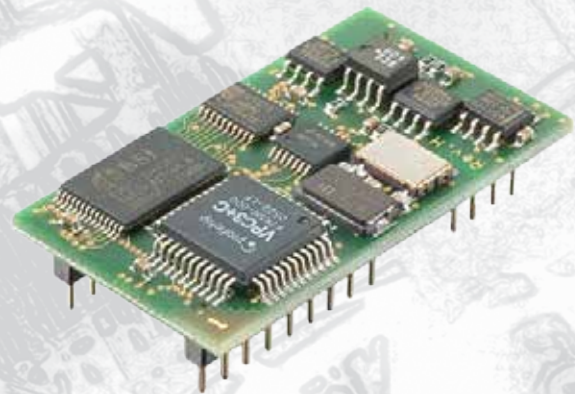


Fieldbus

Field Bus-Interface for Intelligent Actuators PS-AMS

At heightening degrees of automation in a production plant the complexity of wiring increases due to parallel wiring of a higher number of analogue input/output points. That in turn increases expenses for project planning, installation, commissioning, and maintenance. Profi bus replaces the many parallel wiring bundles by one single two-core field bus cable that digitally connects all levels from the field level to the process control room. An interface board is placed into the PS-AMS actuator. It reduces required space in the electric control cabinet, reduces cost for wirings and opens new possibilities for the plant operator.

The PSPDP interface board is a complete single-chip bus-solution. It contains all necessary components, such as microcontrollers, Flash, RAM, Profi bus-chip and of course the analogue components, such as opto-electronic coupler and bus driver. The PSPDP interface board can use the full data bus width of 244 bytes and supports all speeds up to a maximum of 12 Mbit/s. All functions of a Profi bus slave DPV1 are supported. The PSPDP Board is certified and can be used for all Profi bus-master-systems on the market. An integrated microprocessor handles the entire data traffic with the bus. Consequently the actuator's processor is not loaded with additional communication processing tasks. That way the established operating reliability of the production plant is preserved.



- Automatic commissioning
- Input of set value of the actuator and actual value feed back to the control room
- Differentiated error codes and signalling of operating conditions to the control room
- Readout of all diagnostic data and variables recorded by the actuator
- In case of utilisation of the integrated process controller PSIC: input of process set value from the control room

System-dependent interface boards for PS-AMS are available for the following bus-systems:

CANopen
Ethernet
Interbus
LonWorks
MPI
Powerlink
Profibus
Profinet

Additional interfaces upon request
Varying minimum purchase quantities apply