Panasonic
ideas for life

The optimal network solution for your facility

Fieldbus Master Units for FPΣ (Sigma) and FP2

The expansion Fieldbus Master Units (FMU) allow you to integrate FPΣ (Sigma) and FP2 PLCs into your network with a maximum degree of flexibility. The units are available for three bus systems: PROFIBUS, DeviceNet and CANopen. Others are planned for the future.

FPΣ FMU PROFIBUS:
FPG-DPV1-M

FPΣ FMU DeviceNet:
FPG-DEV-M

FPΣ FMU CANopen:
FPG-CAN-M

FP2 FMU PROFIBUS:
FP2-DPV1-M

FP2 FMU DeviceNet:
FP2-DEV-M

FP2 FMU CANopen:
FP2-CAN-M

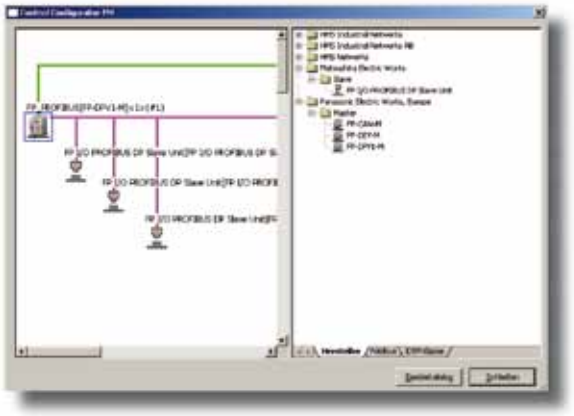
Advantages:

- Wide range of connectivity solutions for FPΣ (Sigma) and FP2/FP2SH
- One PLC hardware platform for several bus systems
- Gateway function between fieldbus types simply by connecting the corresponding expansion units to the same CPU

For each network type, ready-made function libraries are available for the programming software Control FPWIN Pro. These libraries drastically shorten the time needed to develop your applications, and consequently save valuable human resource costs. They also include a comprehensive online help and programming examples.

Configuration Software Control Configurator FM

Control Configurator FM is an add-on software for Control FPWIN Pro and is used to configure and diagnose the FMUs.



Product number:
AFPS35510

Advantages:
One configuration software for various fieldbus systems
- One-time cost, several network types
- Only one installation necessary
- User must only be trained to use one software

Integrated in the PLC programming software Control FPWIN Pro
- No additional software required on the PC
- Bus-relevant global variables are automatically generated for the PLC program, preventing errors
- Fully integrated in the FPWIN Pro project file, no separate files on PC

FMU (Fieldbus Master Unit) features

Technical data	PROFIBUS	DeviceNet	CANopen
Bustype	RS485	CAN / ISO 11898	
Number of Slaves	125	63	126
Number of process data	3584 bytes for inputs and 3584 bytes for outputs		
Bus length	100m (12Mbit/s) 200m (1.5Mbit/s) 400m (500kbit/s) 1km (187.5kbit/s)	100m (500kbit/s) 250m (250kbit/s) 500m (100kbit/s)	40m (1Mbit/s) 500m (100kbit/s)
Connection types	DP-V0: process data is accessed from the PROFIBUS network as cyclical I/O data	• Cyclic connections • COS (Change of State) • Bit strobe connections • Polled connections • Explicit connections	PDO (Process Data Object) Exchange via: • Cyclic Synchronous • Acyclic Synchronous • COS • Timer-driven connections
Internal current consumption	FPG-DPV1-M: 135mA FP2-DPV1-M: 450mA	FPG-DEV-M: 45mA FP2-DEV-M: 150mA	FPG-CAN-M: 135mA FP2-CAN-M: 450mA
Connector type	DB9F (9-pin Sub-D female)	5-pin terminal block	DB9F (9-pin Sub-D male)
Weight	FPG-DPV1-M: 95g FP2-DPV1-M: 118g	FPG-DEV-M: 95g FP2-DEV-M: 118g	FPG-CAN-M: 95g FP2-CAN-M: 118g

FMU (Fieldbus Master Unit) Expansion:

FPΣ (Sigma)
The FPΣ (Sigma) FMUs are connected to the FPΣ (Sigma) CPU's parallel (left) system bus.
Up to 2 units can be connected.

FP2
The number of FP2 FMUs is restricted by the size of the FP backplane and the power supply capacity.