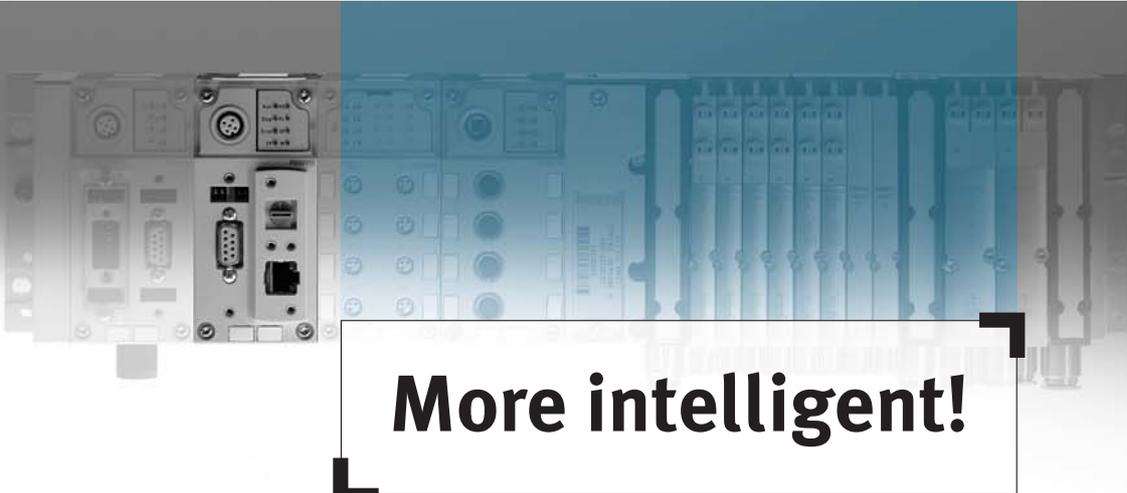# CPX -Terminal
Pre-processing with the CPX-FEC

FESTO

More intelligent!

The modular electrical CPX terminal is now available with pre-processing. The CPX-FEC was created by integrating the time tested front-end controller into the CPX electrical terminal.

CPX-FEC for a programmable valve terminal

The CPX-FEC supports all CPX-modules, as well as Midi, CPA and MPA valve terminals, and the new technology modules such as the CPX-CP interface for simple connection to CPV valve terminals.

Optimised PLC performance

CPX-FEC for a modular PLC with IP65/IP67 protection – direct mounting to the machine reduces installation costs. CPX-FEC performance: the number of connectable sensors and actuators (memory capacity) and speeds (cycle time) are ideally matched to the CPX terminal.

Out of the control cabinet ...   into the application ...   Reduced installation costs
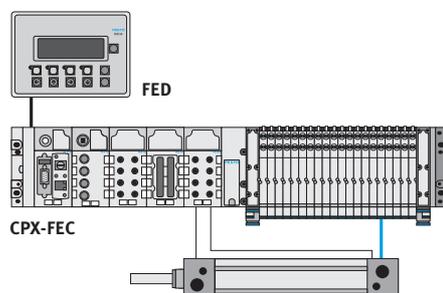
CPX-Terminal with integrated controller – CPX-FEC

In combination with CPX terminal platform technology, the CPX-FEC facilitates implementation of the following basic control concepts:
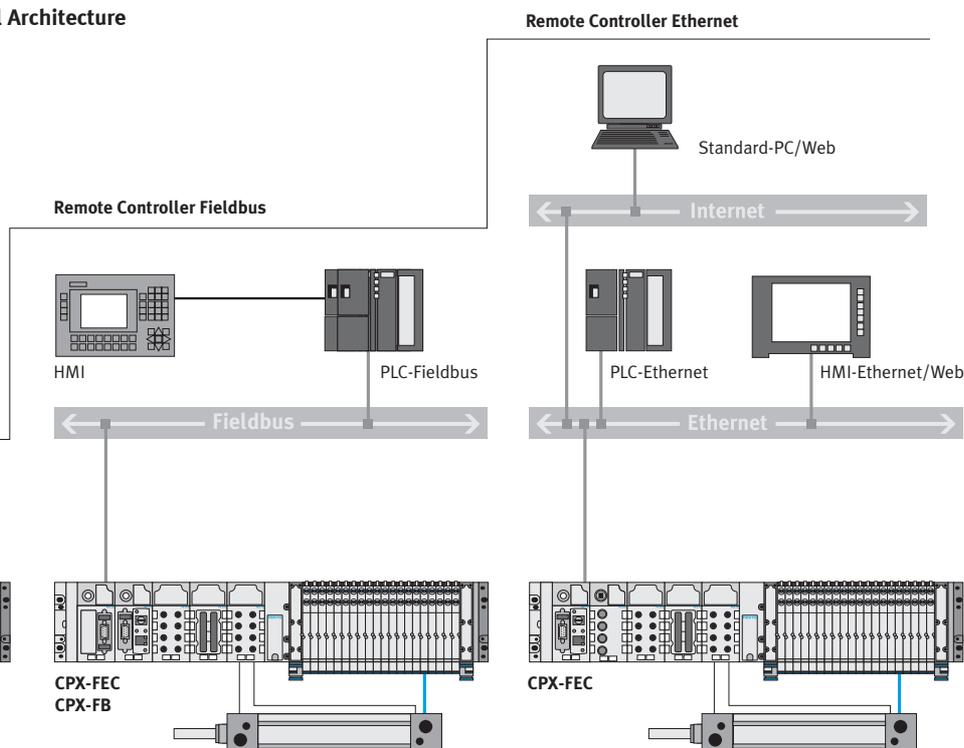
- Stand-alone operation as a front-end controller or programmable valve terminal mounted directly to the machine

- Remote fieldbus controller (combination with fieldbus nodes for Interbus, Profibus-DP, CANopen, DeviceNet or CC-Link) as preprocessing unit for decentralised, autonomous subsystems

- Remote Ethernet controller as pre-processing unit for decentralised, autonomous subsystems using IT

- Remote I/O at the Ethernet as a solution for integration into Schneider Electric automation systems (Modbus TCP) including use of IT

Designation	CPX-FEC-1-IE
Protection	IP65/IP67
Display	4 LEDs (CPX-specific) 4 LEDs for FEC and Ethernet
Control elements	DIL switch for operating modes Rotary switch for RUN/STOP and program selection
Interface/connection	Serial interface (Sub-D, RS 232) for connecting a PC to programming and control units, e.g. FED Front-End Display
Memory capacity	Ethernet 10/100 BaseT (RJ45) for connection to the network Service interface (M12) for connecting the handheld CPX-MMI Approx. 250 kByte for FST user programs Approx. 550 kByte for web applications
Cycle time Programming software	1 ... 2 ms for 1k statement FST 4 statement list and ladder diagram
Ethernet	Web server, SMTP (e-mail), TFTP (file transfer) Modbus/TCP (I/O data transfer in Schneider automation environment) EasyIP (I/O data transfer in Festo environment)
System expansion	Complete CPX periphery

Control Architecture

Use in the following applications is advantageous
- Autonomous, manual workstations
- Linked, autonomous subsystems
- Automation with IT

Basically, the CPX-FEC can be used throughout the entire factory automation market, as well as in the process industry to some extent (preprocessing solutions are in demand here, in particular linked to Modbus/TCP).

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