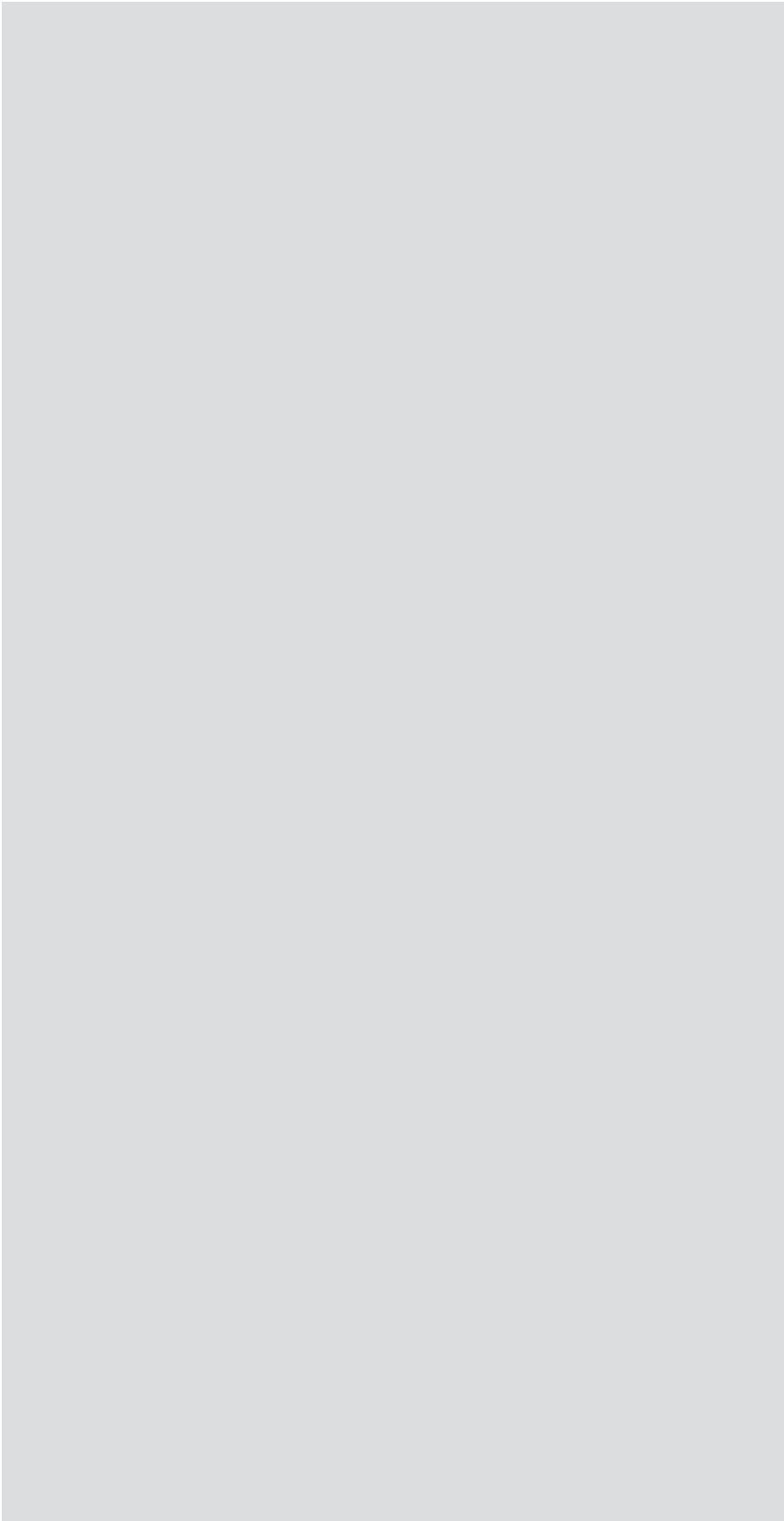


CPX-CEC/CPX-CEC-C1
Control block



FESTO

Addendum document I
Cyber security



8218393
8218393
2024-07
[8218395]

Original instructions

CODESYS, MODBUS are registered trademarks of the respective trademark owners in certain countries.

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1 Applicable documents



All available documents for the product → www.festo.com/sp.

2 Additional information

- Contact the regional Festo contact if you have technical problems → www.festo.com.
- Accessories and spare parts → www.festo.com/catalogue.
- Cyber security information → www.festo.com/psirt.

3 Cyber security measures

Accidental or improper execution of functions on the product can lead to failure or malfunction of the product and thus the entire connected system. In addition, unauthorised access to information stored on the product may be possible. The system operator must therefore take appropriate measures to prevent accidental or improper access to the product. Cyber security information → www.festo.com/psirt.

Access with Festo service tools

The following table shows the device functions and the ports used for the specific device function.

Function	Description	Port	Operation
Search	The device can be found on the network using a search protocol.	990 (UDP) 10002 (UDP/MULTICAST)	<input checked="" type="checkbox"/>
Network	The device supports the display and setting of the network parameters. On completion of setting the device will restart.	990 (UDP) 10002 (UDP/MULTICAST)	<input type="checkbox"/>
Firmware	The device supports the download of a new firmware version.	10002 (UDP/MULTICAST)	<input type="checkbox"/>
Backup/restore	The device supports data backup and data recovery. This will restart the device.	10002 (UDP/MULTICAST) 23+21 (TCP)	<input checked="" type="checkbox"/>
Telnet	The device supports Telnet connections.	23 (TCP)	<input checked="" type="checkbox"/>
Homepage	The device provides an information page for Internet browsers. In addition, after entering the user and password, it enables changes to parameters in the system, firmware updates, switching services on/off	80 (TCP)	<input checked="" type="checkbox"/>
FMT	The device supports the current version of the "Festo Maintenance Tool" application as well as the parameterisation and diagnostics of CPX with FMT.	991 (UDP)	<input checked="" type="checkbox"/>
Identification	The device supports the prompt for identification (for example, a flashing LED).	10002 (UDP/MULTICAST)	<input checked="" type="checkbox"/>
Boot application	The device supports the transmission of a CODESYS program.	21 (TCP)	<input type="checkbox"/>
Firmware with backup	The device supports the download of a new firmware version with upstream data backup and downstream restoration of the backed up data in an automatic process.	21 (TCP) 10002 (UDP/MULTICAST)	<input type="checkbox"/>
File transfer	The device supports file transfer in the command line mode.	21 (TCP) 10002 (UDP/MULTICAST)	<input checked="" type="checkbox"/>
Repair	The device can be repaired after an aborted or faulty firmware update.	10002 (UDP/MULTICAST)	<input type="checkbox"/>
Reboot	The device can be restarted.	10002 (UDP/MULTICAST)	<input type="checkbox"/>
Festo CI	Festo command interpreter interface	991 (UDP)	<input type="checkbox"/>
<input type="checkbox"/> To avoid potential damage to the system do not perform the function during operation. <input checked="" type="checkbox"/> The function can be executed during operation.			

Tab. 1: Functions available via the protocols used by Festo service tools

Access via the CODESYS development environment

The following table shows the functions and the ports used for each function.

Function	Description	Port	Configurable
CODESYS communication	Connection from CODESYS to the controller, execution of system-critical commands (start/stop/reset/reload/delete application, reboot, configuration change, PLC Shell).	1200 (TCP)	<input type="checkbox"/>
Network variables	Read and write access to the variable interface of the controller. The default port can be reconfigured.	1202 (UDP)	<input checked="" type="checkbox"/>
Modbus TCP server	Access to the variable interface of the controller with read and write services. The default port can be reconfigured.	502 (TCP)	<input checked="" type="checkbox"/>
Festo_EasyIP	Access to the variable interface of the controller with read and write services.	995 (UDP)	<input checked="" type="checkbox"/>
<input type="checkbox"/> The network ports are always in use. <input checked="" type="checkbox"/> The network ports are only used if they are configured in the CODESYS application.			

Tab. 2: Functions available via the CODESYS development environment

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