

# Control cabinets

Ready-to-install solutions – Factory automation



- Control cabinets made to measure
- Individually configured
- Adapted to requirements in industrial automation
- Design and sizing included

## General information

Festo made-to-measure control cabinets provide protection for all pneumatic, electrical and electronic system components. The control cabinets are individually

designed and built for the respective application, taking into account specific industry requirements such as those in the food or automotive industries, for example. The design is also

influenced by local conditions such as weather and climate. Along with Festo components, third-party components are integrated into the control cabinets as required.

The operationally tested system is delivered ready-to-install – directly to where it will be used, if requested.

## Technical data

- Simple to complex control cabinet designs
  - Pneumatic
  - Electrical
  - Combined
- Application-specific combination of components
- Use of the latest innovations and technologies
- Fully tested, with test certificate

- Ready-to-install
- Complete documentation
- Design conforms to:
  - EN 60204-1
  - ATEX zone 1 and 21 (pneumatic only), ATEX zone 2 and 22 (electric and electro-pneumatic)
  - UL-508A
- Implementation of safety functions

- Different bus technologies:
  - PROFIBUS
    - PROFIBUS DP
    - PROFIBUS PA
    - PROFIBUS FMS
  - PROFINET
  - INTERBUS
  - EtherCAT
  - CANopen
  - MODBUS
  - DeviceNet
  - EtherNet/IP
  - CC-Link
  - AS-Interface

## Ready-to-install – the benefits to you

### Ordering

Just one order number for the entire control cabinet.

### Engineering

Complete engineering solution according to your application-specific requirements by Festo specialists.

### Production and assembly

The entire production and assembly process is taken care of for you.

### Checking and testing

The control cabinet is fully tested.

### Documentation

You receive detailed system documentation, which you can quickly and easily integrate into your overall documentation:

- Assembly drawing
- Bill of materials
- Circuit diagrams (EPLAN/Promis)
- Operating instructions for components

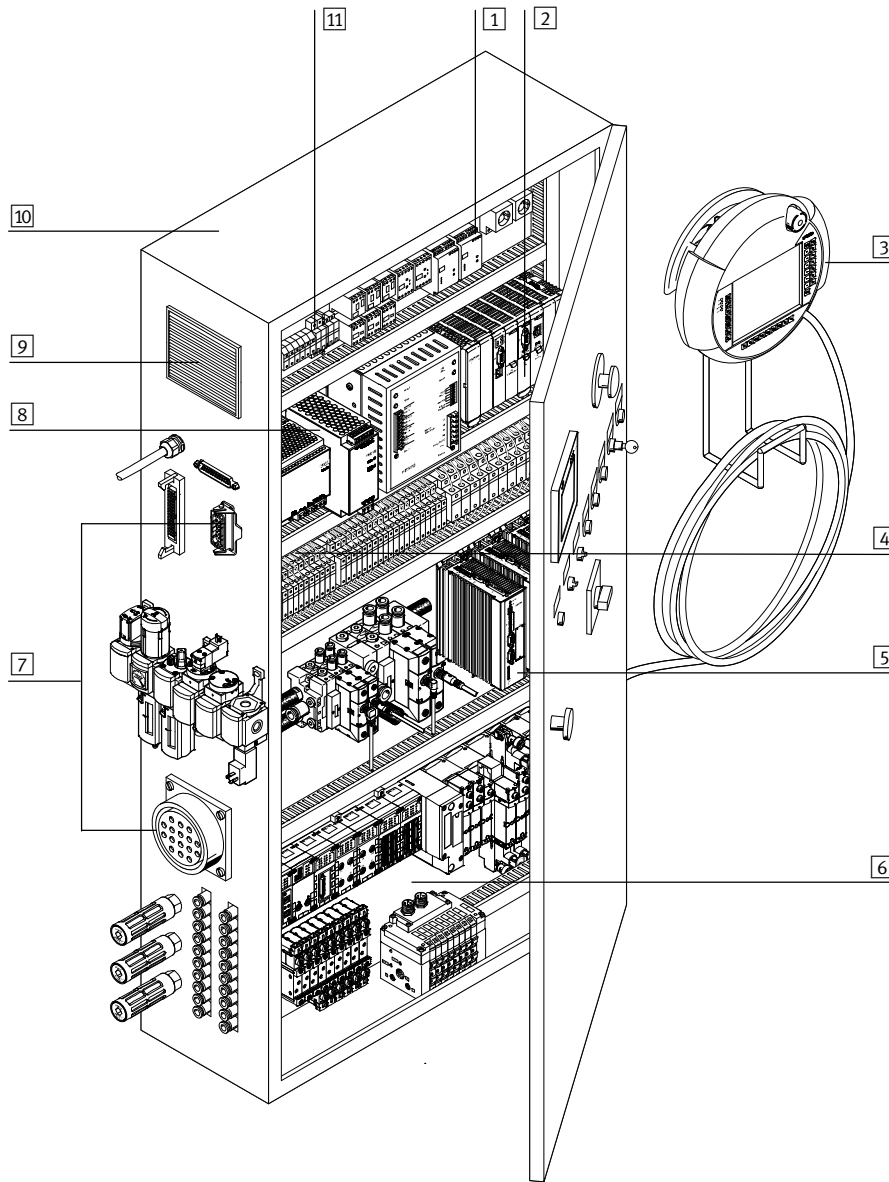
### Interested in control cabinets for factory automation?

Ask your Festo sales engineer, who will be happy to help. Or visit your website at [www.festo.com](http://www.festo.com), where you will find further information on ready-to-install solutions.

# Control cabinets

Ready-to-install solutions – Factory automation

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|--|---|--|---|
| <p><b>1</b> Power supply</p> <ul style="list-style-type: none"> <li>– 24 V DC, up to 20 A</li> <li>– 48 V DC</li> <li>– Single-phase/three-phase</li> <li>– Plug sockets</li> </ul> <p><b>2</b> Control system</p> <ul style="list-style-type: none"> <li>– CPX</li> <li>– Robot control system</li> <li>– Third-party control systems</li> <li>– Up to 6 axes</li> <li>– Safety relays</li> </ul> <p><b>3</b> Operator units</p> <ul style="list-style-type: none"> <li>– Mobile: MMI, CDSA</li> <li>– Integration in the control cabinet: emergency off, key actuator, control elements</li> </ul> | <p><b>4</b> Wiring/tubing</p> <ul style="list-style-type: none"> <li>– Number of wires</li> <li>– Cross section</li> <li>– Cable harness/individual cables</li> <li>– Cable inscription</li> <li>– Tubing diameter</li> <li>– Tubing colour/material</li> <li>– Tubing designation</li> </ul> <p><b>5</b> Controller</p> <ul style="list-style-type: none"> <li>– Servo motor</li> <li>– Stepper motor</li> <li>– DC motor</li> </ul> | <p><b>6</b> Pneumatics</p> <ul style="list-style-type: none"> <li>– Valves/valve terminals</li> <li>– Compressed air preparation</li> <li>– Pressure regulators</li> <li>– Sensors</li> <li>– Servopneumatics</li> </ul> <p><b>7</b> Outputs</p> <ul style="list-style-type: none"> <li>– Pneumatic, electrical</li> <li>– Multi-pin interfaces</li> </ul> <p><b>8</b> Power supply unit</p> <ul style="list-style-type: none"> <li>– Converts AC voltage/frequency</li> <li>– Speed regulation</li> </ul> | <p><b>9</b> Cooling/heating</p> <ul style="list-style-type: none"> <li>– Active</li> <li>– Passive</li> </ul> <p><b>10</b> Housing</p> <ul style="list-style-type: none"> <li>– Sheet steel/stainless steel/aluminium/plastic</li> <li>– Standard sizes</li> <li>– Special sizes</li> <li>– Illuminated</li> <li>– Control cabinet colour RAL 7035 or special colour</li> <li>– Labels</li> </ul> <p><b>11</b> Fuses</p> <ul style="list-style-type: none"> <li>– Safety fuse</li> <li>– Circuit breaker</li> </ul> |
|--|---|--|---|

# Control cabinets

Ready-to-install solutions – Process automation



- Control cabinets made to measure
- Individually configured
- Adapted to requirements in process automation
- Design and sizing included

## General information

Festo made-to-measure control cabinets provide protection for all pneumatic, electrical and electronic system components. The control cabinets are individually

designed and built for the respective application, taking into account specific process industry requirements. The design is also influenced by local conditions such as weather and cli-

mate as well as compliance with hygiene criteria or protection classes. Along with Festo components, third-party components are integrated into

the control cabinets as required. The operationally tested system is delivered ready-to-install – directly to where it will be used, if requested.

## Technical data

- Simple to complex control cabinet designs
  - Pneumatic
  - Electrical
  - Combined
- Application-specific combination of components
- Different operating voltages possible
- Use of the latest innovations and technologies
- Fully tested, with test certificate
- Ready-to-install
- Complete documentation
- Design conforms to:
  - EN 60204-1
  - ATEX zone 1 and 21 (pneumatic only), ATEX zone 2 and 22 (electric and electro-pneumatic)
  - UL-508A
- Implementation of safety functions
- Wide range of bus technologies
- Compliance with special cleanliness and hygiene requirements
- Special materials, e.g. stainless steel, for use in virtually all ambient conditions
- Protected against the ingress of liquids and foreign matter
- Installation of heating or cooling elements
- Intrinsically safe valve terminal technology
- Replacement of individual terminal valves during operation (hot swap)
- Installation of inspection windows
- Control elements on the outside
- Safe thanks to key lock system on the service unit: to switch off, all employees responsible must remove their lock

## Ready-to-install – the benefits to you

### Ordering

Just one order number for the entire control cabinet.

### Engineering

Complete engineering solution according to your application-specific requirements by Festo specialists.

### Production and assembly

The entire production and assembly process is taken care of for you.

### Checking and testing

The control cabinet is fully tested.

### Documentation

You receive detailed system documentation, which you can quickly and easily integrate into your overall documentation:

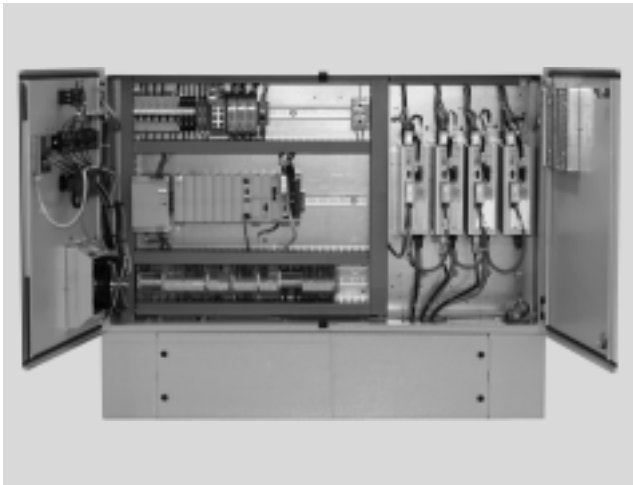
- Assembly drawing
- Bill of materials
- Circuit diagrams (EPLAN/Promis)
- Operating instructions for components

### Interested in control cabinets for process automation?

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# Control cabinets

Ready-to-install solutions – Control cabinets for controllers



- Made-to-measure control cabinets for handling systems
- Software package for third-party devices included
- Individually configurable
- Adapted to requirements for handling solutions → portale

## General information

Festo made-to-measure control cabinets for controllers provide protection for control components for single-axis and multi-axis systems, from solutions involving simple control tasks to

the complex control of highly dynamic movements, such as with the tripod. The control cabinets are individually designed and built for the respective application, taking into account spe-

cific industry requirements such as those in the food or pharmaceuticals industries, for example. Festo can also integrate third-party components, including software pack-

ages, as required. The operationally tested system is delivered ready-to-install – directly to where it will be used, if requested.

## Technical data

- Simple to complex control cabinet designs
- 1 ... 31 axes
- Application-specific combination of components
- Fully tested, with test certificate
- Use of the latest innovations and technologies
- Ready-to-install
- Complete documentation
- Design conforms to:
  - EN 60204-1
  - ATEX zone 1 and 21 (pneumatic only), ATEX zone 2 and 22 (electric and electro-pneumatic)
  - UL-508A
- Implementation of safety functions
- Wide range of bus technologies

## Ready-to-install – the benefits to you

### Everything from a single source

Handling system and control cabinet perfectly co-ordinated.

### Ordering

Just one order number for the entire control cabinet.

### Engineering

Complete engineering solution according to your application-specific requirements by Festo specialists.

### Production and assembly

The entire production and assembly process is taken care of for you.

### Checking and testing

The control cabinet is fully tested.

### Documentation

You receive detailed system documentation, which you can quickly and easily integrate into your overall documentation:

- Assembly drawing
- Bill of materials
- Circuit diagrams (EPLAN/Promis)
- Operating instructions for components

### Interested in control cabinets for controllers?

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