

Operator units CDPX



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Key features

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Properties

Festo CDPX panels are high-performance processors combined with wide-screen technology. They provide more functions at a higher resolution for the interfaces between man and machine.

Functionality

- Advanced graphics and animations
- Symbol gallery
- Advanced functions with script language
- Remote access, remote control
- FTP and HTTP servers
- Templates
- Pop-up
- Incorporation of standard documents
- Differential download
- Open for web and multimedia applications

The Front End Displays with touchscreen CDPX

The CDPX panels visualise data and, at the same time, operate as servers by allowing access for external clients both on-site and around the world; networking made simple thanks to the Ethernet interface with integrated

switch. They are distinguished by a high-resolution graphic display and simple, intuitive project planning and programming in Designer Studio. Ideally matched to Festo controllers (CoDeSys V2.3 and V3) and Modbus

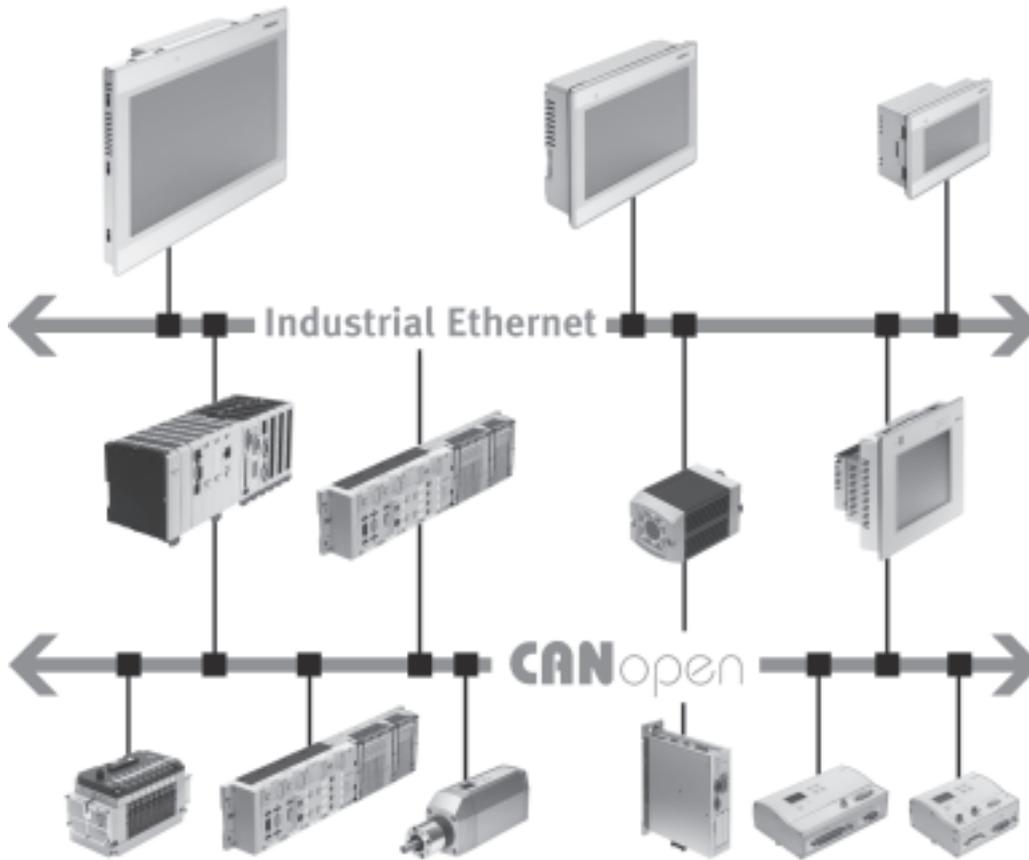
TCP networks, they display data and parameters in graphic format simply, flexibly and with great diversity. Thanks to modern touch technology, the projected dialogue with machines and systems is extremely easy. With

the CoDeSys V3 controller provided by Festo which can be optionally integrated, CDPX panels can be expanded into a space-saving controller concept.

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Key features

The Front End Displays in the Festo controller range



Functions

- Data display in numerical, textual and graphic form
- Data acquisition
- Trend display
- Recipe handling
- Alarm management
- Multilingualism
- Editor for Java script language
- Security management
- Audit trail
- Scheduler functionality
- Extendable memory area on SD card
- Web browser
- IP camera image display

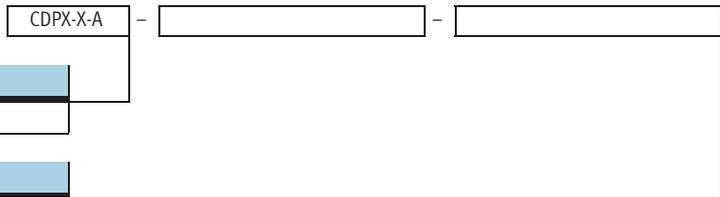
Operator units CDPX

Product range overview, type codes

Type	Display resolution	Number of colours	Display size	Interfaces	→ Page/ Internet
Touchscreen					
CDPX-X-A-W-4	WQVGA, 480x272 pixels	64 k	4.3"	USB, Ethernet ¹⁾ , RS485, USB, SD card	5
CDPX-X-A-W-7	WVGA, 800x480 pixels		7"		
CDPX-X-A-S-10	SVGA, 800x600 pixels		10.4"		
CDPX-X-A-W-13	WXGA, 1280x800 pixels		13.3"		

1) Ethernet switch 2x Rj45 10/100 MBd

Type codes



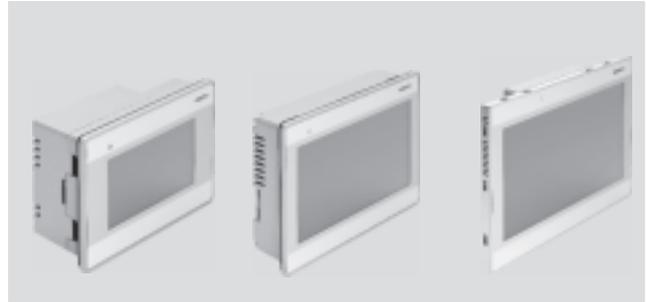
Function	
CDPX-X-A	Operator unit

Display size, equipment	
S	Standard display, touchscreen
10	10.4", 64 k colours
W	Wide-screen display, touchscreen
4	4.3", 64 k colours
7	7", 64 k colours
13	13.3", 64 k colours

Operator units CDPX

Technical data

Voltage 18 ... 30 V DC
 Temperature range 0 ... +50 °C



General technical data				
	CDPX-X-A-W-4	CDPX-X-A-W-7	CDPX-X-A-S-10	CDPX-X-A-W-13
Display	Colour TFT			
Display properties	Touchscreen			
Display size	4.3"	7"	10.4"	13.3"
Display resolution	WQVGA, 480x272 pixels	WVGA, 800x480 pixels	SVGA, 800x600 pixels	WXGA, 1280x800 pixels
Number of colours	64 k			
Number of system LEDs	1			
Recipe memory [kB]	32			
Event lists	2,048			
Alerts	2,000			
Pages	1,000			
Tags	10,000			
Widgets	2,000			
Objects on one page	2,000			
Users	50			
Simultaneous client access attempts	4			
Trend buffers	30			
Curves per trend widget	5			
Recipes	32			
Parameter sets per recipe	32,000			
Event buffers	4			
Events per event buffer	2,048			
Java script file size per page [kB]	8			
Project size	30			
Schedulers	30			
SD card slot	1			
Type of mounting	Front panel mounting			
Installation depth [mm]	56	47	56	56
Height [mm]	109	147	232	267
Length [mm]	149	187	287	336
Max. front panel thickness [mm]	4			
Note on materials	RoHS-compliant			

Operator units CDPX

Technical data

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Electrical data		CDPX-X-A-W-4	CDPX-X-A-W-7	CDPX-X-A-S-10	CDPX-X-A-W-13
Nominal operating voltage DC	[V]	24			
Operating voltage range DC	[V]	18 ... +30			
Current consumption at nominal operating voltage	[A]	0.4	0.7	1	1.2
Programming software		Designer Studio			
PLC interface		Modbus RTU			
		RS485			
Supported PLC protocols		CoDeSys 2.3			
		CoDeSys 3.x			
		Modbus RTU Client			
		Modbus RTU Server			
		Modbus TCP Client			
		Modbus TCP Server			
USB interface		Yes			
Ethernet interface		RJ45 10/100 MBd			
Backup battery		Rechargeable lithium battery			
Real-time clock		Yes			
Real-time clock deviation		130 s/month			
Protection class		IP65 at the front following installation into control panel, IP20 at the back			

Operating and environmental conditions		
Ambient temperature	[°C]	0 ... +50
Storage temperature	[°C]	-20 ... +70
Relative air humidity	[%]	5 - 85
		Non-condensing
CE marking (see declaration of conformity)		To EU EMC Directive ¹⁾
Certification		C-Tick
		cULus listed (OL)

- 1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com → Support → User documentation.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Weight [g]		CDPX-X-A-W-4	CDPX-X-A-W-7	CDPX-X-A-S-10	CDPX-X-A-W-13
Product weight	[g]	1,000	1,000	2,100	2,800

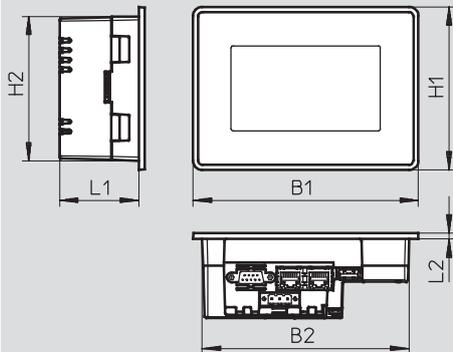
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Technical data

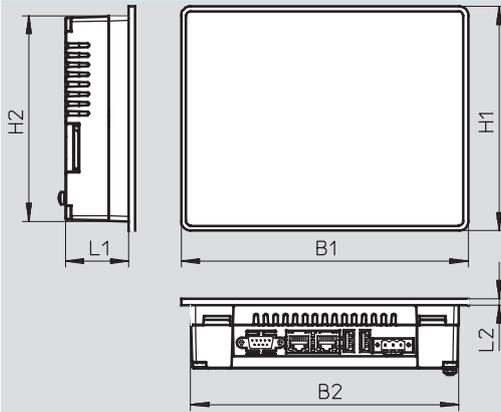
Dimensions

Download CAD Data → www.festo.com/us/cad

CDPX-X-A-W-4



CDPX-X-A-W-7



Type	B1	B2	H1	H2	L1	L2
CDPX-X-A-W-4	149	136	109	996	56	4.5
CDPX-X-A-W-7	187	176	147	136	47	4

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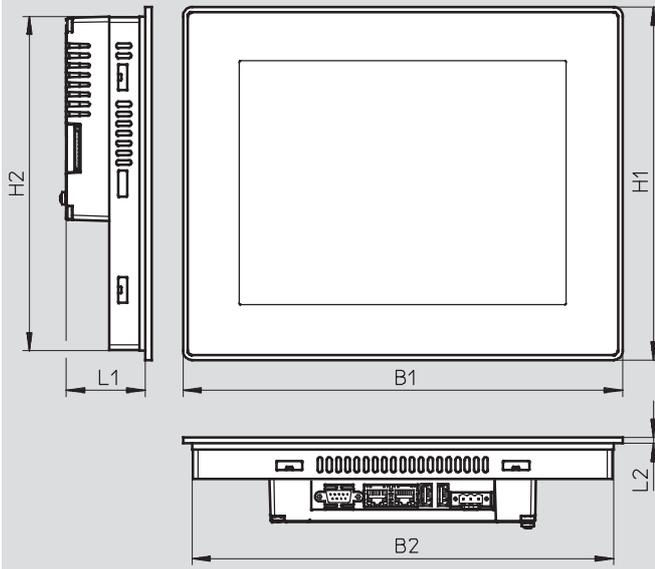
Technical data

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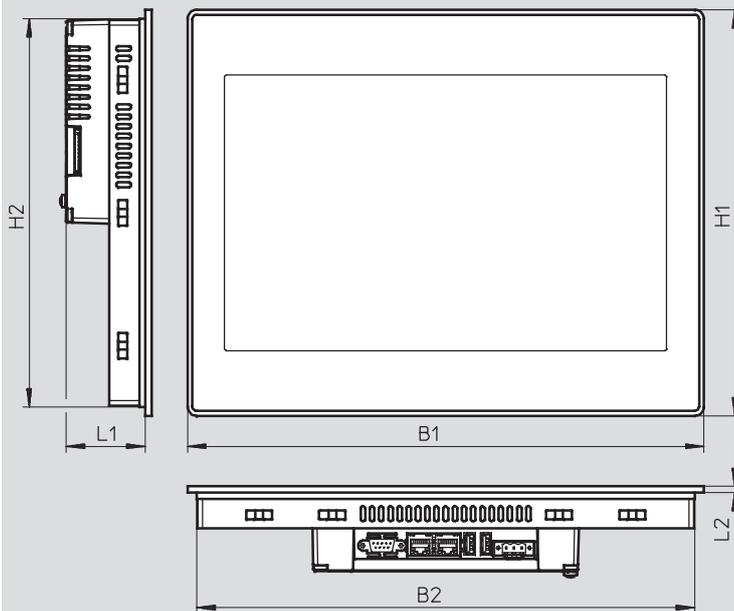
Dimensions

Download CAD Data → www.festo.com/us/cad

CDPX-X-A-S-10



CDPX-X-A-W-13



Type	B1	B2	H1	H2	L1	L2
CDPX-X-A-S-10	287	276	232	221	56	4
CDPX-X-A-W-13	336	326	267	256	56	4

Ordering data

Display resolution	Display size	Number of colours	Part No.	Type
WQVGA, 480x272 pixels	4.3"	64 k	574410	CDPX-X-A-W-4
WVGA, 800x480 pixels	7"		574411	CDPX-X-A-W-7
SVGA, 800x600 pixels	10.4"		574412	CDPX-X-A-S-10
WXGA, 1280x800 pixels	13.3"		574413	CDPX-X-A-W-13

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors, controllers & drives



Pneumatics
Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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