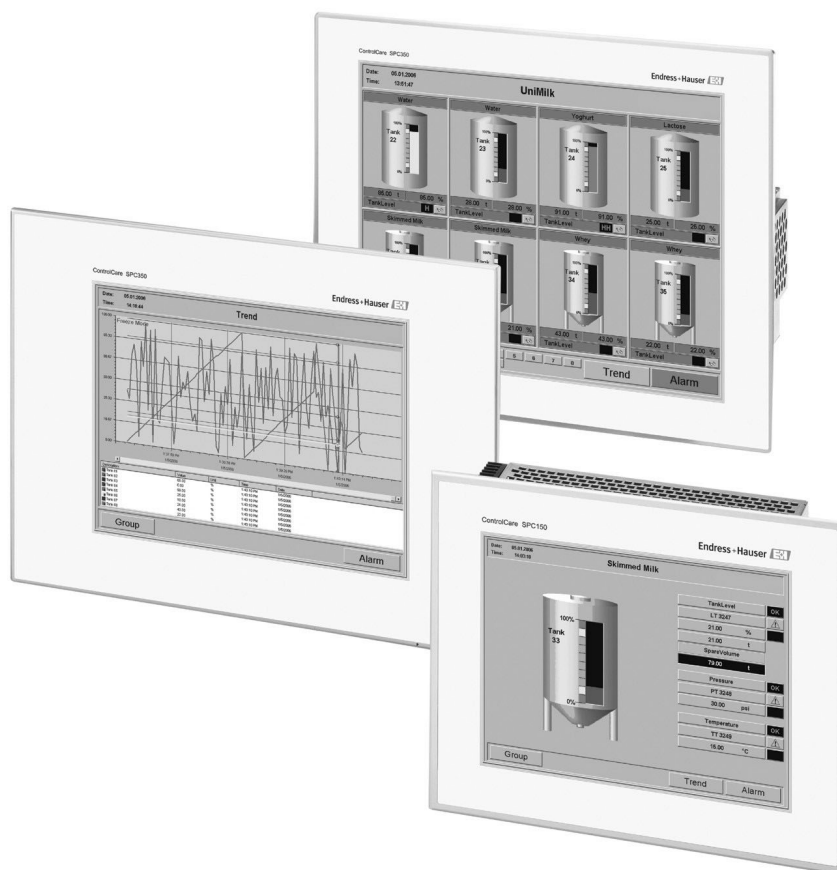


Technical Information

ControlCare Panel PC SPC150, SPC350

12", 15" and 19" touchscreen panel PCs

Preconfigured with ControlCare P View



Application

ControlCare Panel PCs are designed for use in industrial environments and can be mounted in racks, cabinets, cabinet doors or control panels. The PCs are supplied preconfigured with the Endress+Hauser SCADA package ControlCare P View. The version supplied depends on PC type:

- ControlCare Panel PC SPC150 as Web-Client
- ControlCare Panel PC SPC350 with P View Server/ Web-Server

After the license has been activated, everything runs. The P View project has only to be copied to the Panel PC and commissioning is complete. With the Ethernet backbone you can communicate with ControlCare Field Controller using OPC technology.

Features and Benefits

- Panel PC for industrial environment
- 12", 15" and 19" display
- Preconfigured with ControlCare P View
- Front panel to IP65
- No additional Engineering required
- Needs only project and license to run

Function and System Design

Function	<p>ControlCare Panel PC SPC150 and SPC350 are robust, high performance touchscreen computers designed for cabinet, console or other industrial panel mounting. They are delivered as part of an overall solution package preconfigured with Control Care P View and the corresponding application. Two versions are available:</p> <ul style="list-style-type: none"> ■ ControlCare Panel PC SPC150, comprising 12" screen and preconfigured P View Web-client ■ ControlCare Panel PC SPC350, comprising 15" or 19" screen and preconfigured P View <p>P View supports stand-alone applications, client-server architecture and Web server for the configuration of your special needs. It is a program suite that provides a complete solution for HMI/SCADA software applications.</p>
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System architecture

Figure 1 shows a monitoring system with the 19" ControlCare Panel PC acting as P View server. Process values are collected from the PLC or DCS via the Ethernet or serial backbone and made available to the P View clients running in the other stations. Alternative connections for the Panel PC are e.g. via Ethernet and a Fieldgate FXA720 to a PROFIBUS application or via the serial interface to a PROFIBUS or MODBUS application.

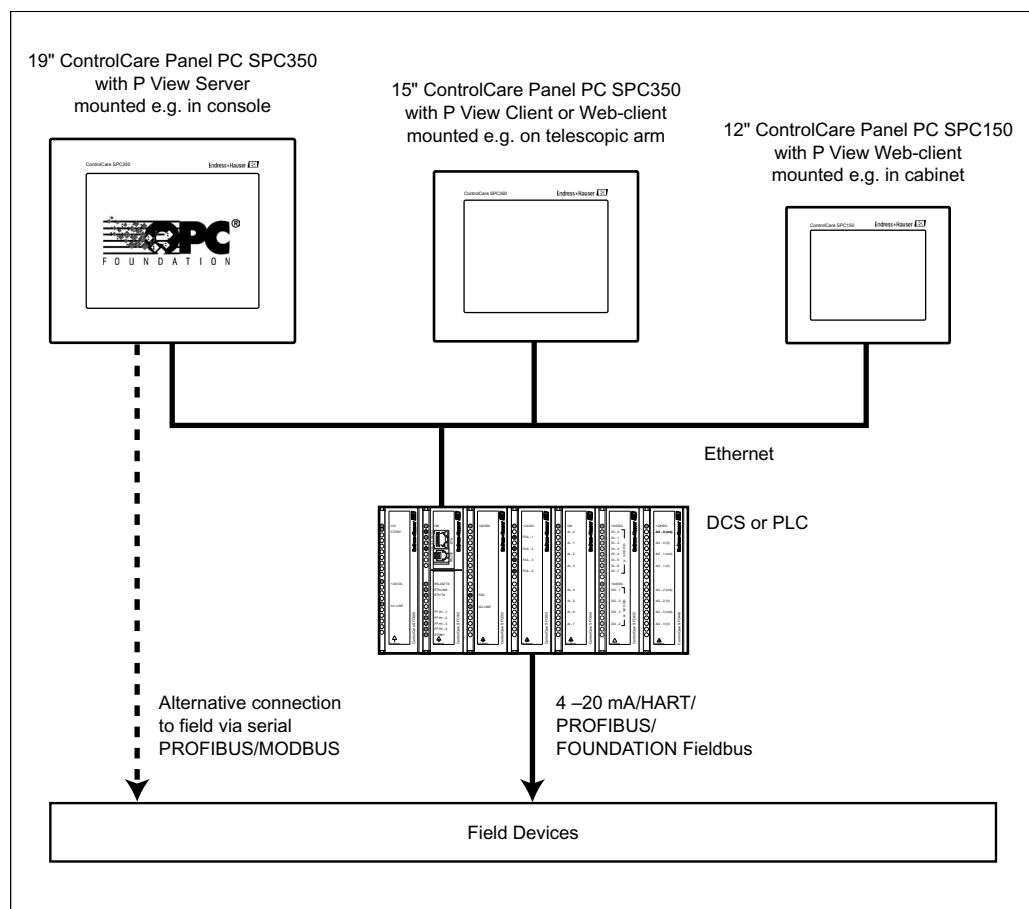


Fig. 1: Example for system architecture with server and client Panel PCs

Additional operating stations	<p>P View allows additional operating stations (clients) to be connected to the central monitoring station (server). There are two types of client available, fat and lean, whereby both types can be in the monitoring system.</p> <ul style="list-style-type: none"> ■ P View Client stations give direct access to the server station. They work with the P View software but without local OPC data. ■ P View Web Client connections can be made via Internet Explorer from anywhere in the world to the application running on the server station. The connection can be protected with firewalls and other security mechanisms. No special software is required on the client side: Internet Explorer offers the functionality required by the P View server.
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Panel PC Specification

General	Attribute	12" ControlCare Panel PC SPC150	15" ControlCare Panel PC SPC350	19" ControlCare Panel PC SPC350
	CPU	Celeron 400 MHz	Pentium III 1266 MHz	Pentium III 1266 MHz
	Memory	256 MB SDRAM (standard) 512 MB SDRAM (option)	512 MB SDRAM (standard) 1024 MB SDRAM (option)	512 MB SDRAM (standard) 1024 MB SDRAM (option)
	Compact flash card	512 MB (standard) 1024 MB (option)	–	–
	Hard disk drive	–	40 GB (standard) 100 GB (optional)	40 GB (standard) 100 GB (optional)
	Floppy-disk drive (3½")	–	Optional, via USB port	Optional, via USB port
	DVD-RW drive	–	Optional, via USB port	Optional, via USB port
Display	Attribute	12" ControlCare Panel PC SPC150	15" ControlCare Panel PC SPC350	19" ControlCare Panel PC SPC350
	Screen size	12.1" diagonal	15.0" diagonal	19" diagonal
	Type	Active matrix LCD TFT color	Active matrix LCD TFT color	Active matrix LCD TFT color
	Resolution	800 x 600 pixel (SVGA)	1024 x 768 pixel, XGA	1280 x 1024 pixel
	Operation	Touchscreen	Touchscreen	Touchscreen
External interfaces	Attribute	12" ControlCare Panel PC SPC150	15" ControlCare Panel PC SPC350	19" ControlCare Panel PC SPC350
	Communication	1x serial RS-232C (COM1)	1x serial RS-232C (COM1)	1x serial RS-232C (COM1)
		1x Ethernet 10/100 Base T	2x Ethernet 10/100 Base T	2x Ethernet 10/100 Base T
			PROFIBUS card (optional)	PROFIBUS card (optional)
	Accessories	1x VGA (for external screen)	1x VGA (for external screen)	1x VGA (for external screen)
		1x PS/2 (for keyboard)	1x PS/2 (for mouse)	1x PS/2 (for mouse)
		1x CF socket for flash card	1x PS/2 (for keyboard)	1x PS/2 (for keyboard)
		2x USB 1.1	1x parallel LPT (for printer)	1x parallel LPT (for printer)
			2x USB 1.1	2x USB 1.1
Software	Attribute	12" ControlCare Panel PC SPC150	15" ControlCare Panel PC SPC350	19" ControlCare Panel PC SPC350
	Operating system	Windows XP Embedded	Windows XP Professional MUI	Windows XP Professional MUI
	ControlCare P View	Web-Client	Server, client or Web-client, according to application	Server, client or Web-client, according to application
Power supply	Attribute	12" ControlCare Panel PC SPC150	15" ControlCare Panel PC SPC350	19" ControlCare Panel PC SPC350
	Power supply	18...36 VDC (SELV)	18...36 VDC (SELV)	90...260 VAC (autorange)
	Protection to IEC 60950	–	–	Class I
	Power consumption	Max. 70 W	Max. 100 W	Max. 160 VA

Operating Conditions

Mechanical

Attribute	12" ControlCare Panel PC SPC150	15" ControlCare Panel PC SPC350	19" ControlCare Panel PC SPC350
Degree of protection	Front: IP 65 Rear: IP 20	Front IP 65 Rear: IP 20	Front: IP 65 Rear: IP 20
Vibrational resistance 10 Hz to 58 Hz: 58 Hz to 150 Hz:	to IEC 60068-2-6 ±0.075 mm DA 10 m/s ²	to IEC 60068-2-6 ±0.075 mm DA 10 m/s ²	to IEC 60068-2-6 ±0.075 mm DA 10 m/s ²
Shock resistance	to IEC 60068-2-7 10g, 11 ms, 3 shocks	to IEC 60068-2-7 10g, 11 ms, 3 shocks	to IEC 60068-2-7 10g, 11 ms, 3 shocks

Environmental

Attribute	12" ControlCare Panel PC SPC150	15" ControlCare Panel PC SPC350	19" ControlCare Panel PC SPC350
Ambient temperature Operation: Storage:	with natural convection +5°C to +45°C (vertical) -20°C to +60°C		
Relative humidity	max. 50% at +40°C, non-condensing max. 90% at +20°C, non-condensing		
Surrounding air	free from corrosive gases		
EMC Interference emission:	to Directive89/336/EWG EN 55011/EN 55022, limit Class A	to Directive89/336/EWG EN 55011/EN 55022, limit Class A	to Directive89/336/EWG EN 55011/EN 55022, limit Class A
Interference immunity:	IEC 61000-6-2: 1999	IEC 50082-2: 1996	IEC 61000-6-2: 1999

Mechanical Construction

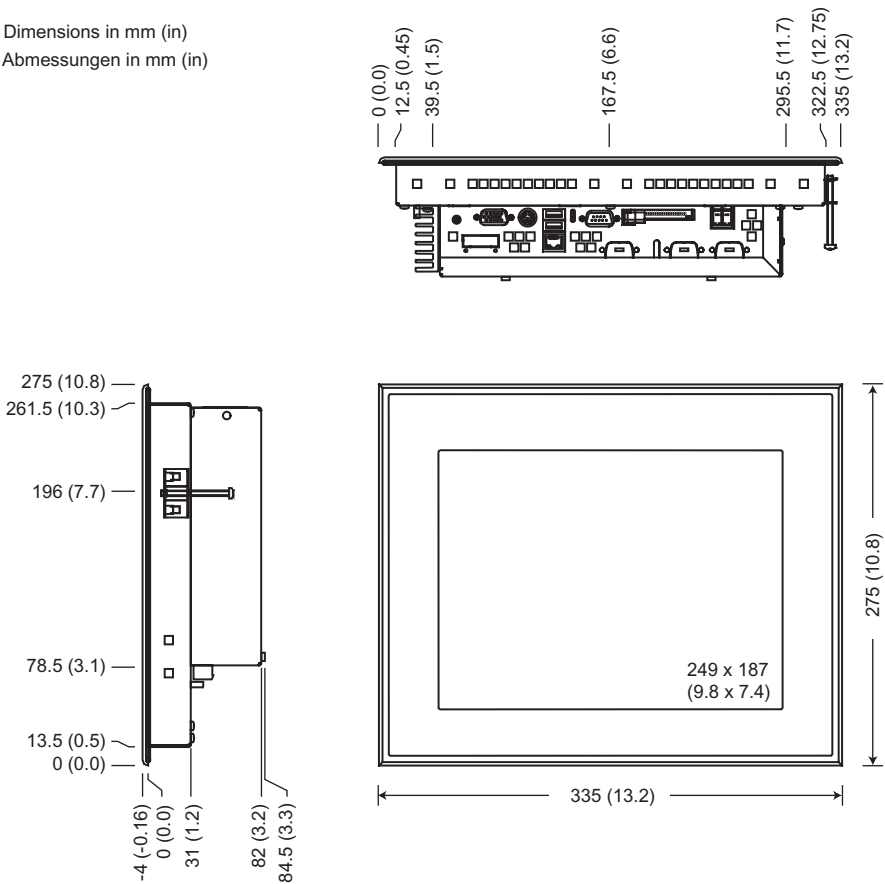
General

Attribute	12" ControlCare Panel PC SPC150	15" ControlCare Panel PC SPC350	19" ControlCare Panel PC SPC350
Mounting	Designed for mounting in panel, cabinet or industrial monitor enclosure		
Front panel	Aluminium baseplate with laminated plastic foil	Steel baseplate with laminated plastic foil	Aluminium baseplate with laminated plastic foil
Housing	1 mm galvanized steel plate	1 mm galvanized steel plate	1 mm galvanized steel plate
Cooling	No cooler	CPU and device cooler	CPU and device cooler
Weight	4.0 kg	7.3 kg	12.7 kg
Overall dimensions	288mm x 220mm x 85.4mm (11.8" x 8.3" x 3.3") for details see Page 5	483mm x 355mm x 90mm (19" x 14" x 3.5") for details see Page 6	483mm x 400mm x 206mm (19" x 15.5" x 8.1") for details see Page 7

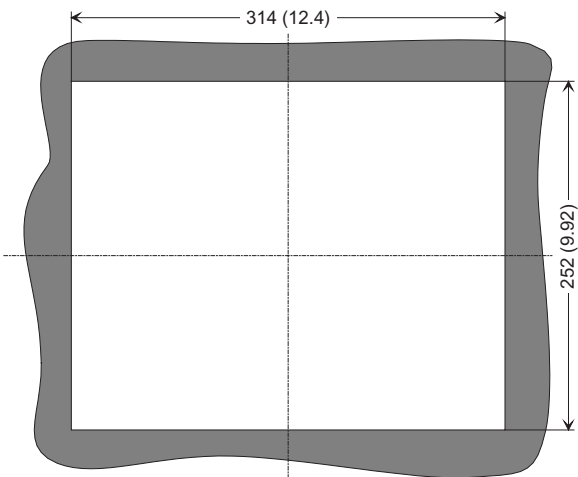
ControlCare Panel PC SPC150, 12" screen

Principle dimensions

Dimensions in mm (in)
Abmessungen in mm (in)

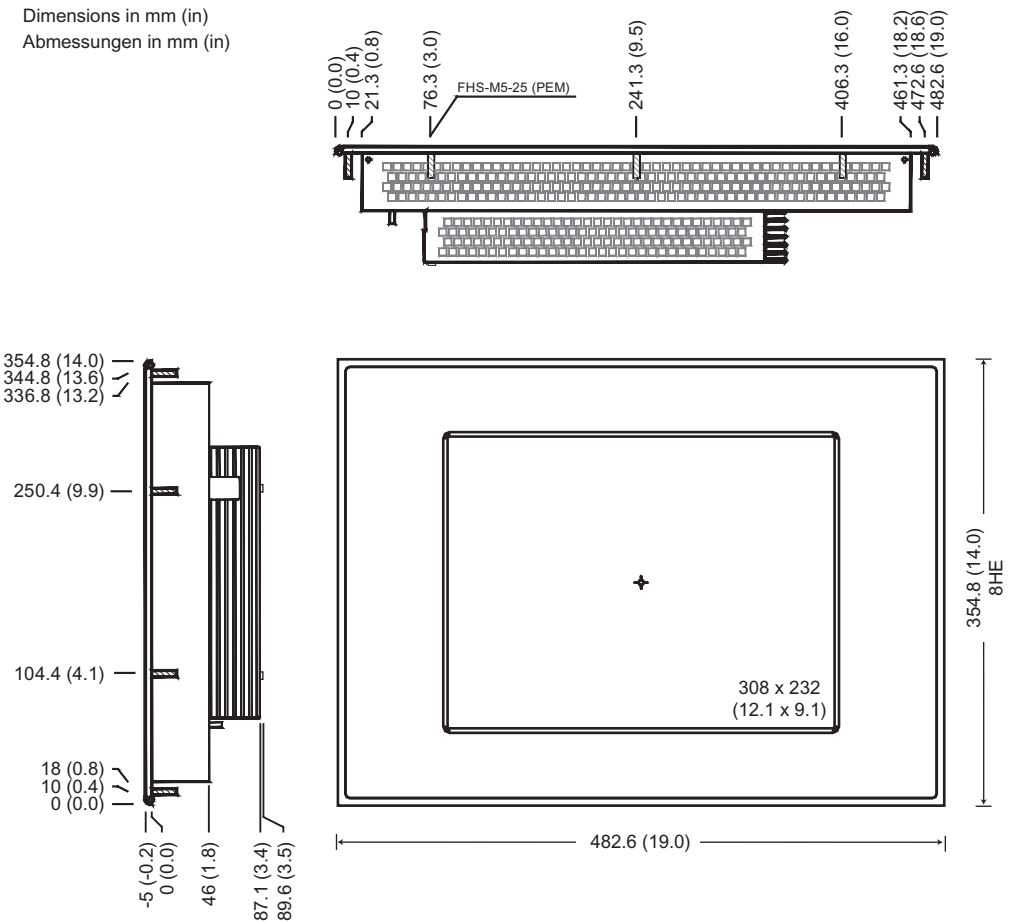


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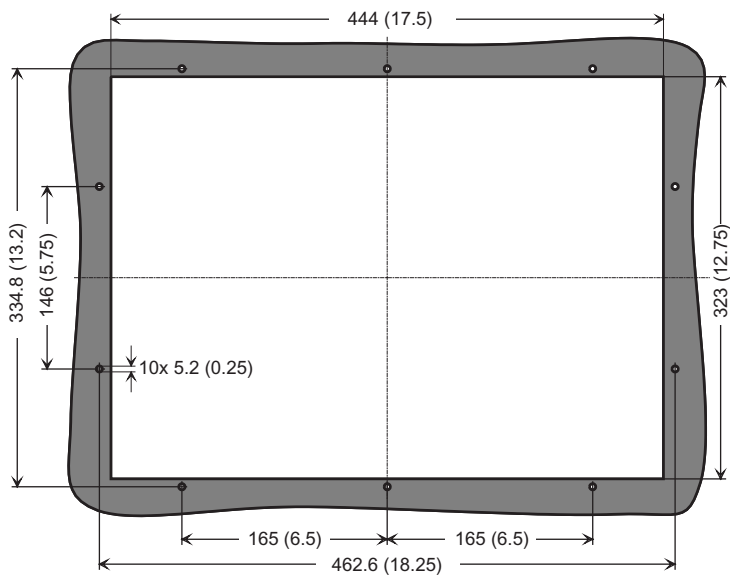


ControlCare Panel PC SPC350, 15" screen

Principle dimensions



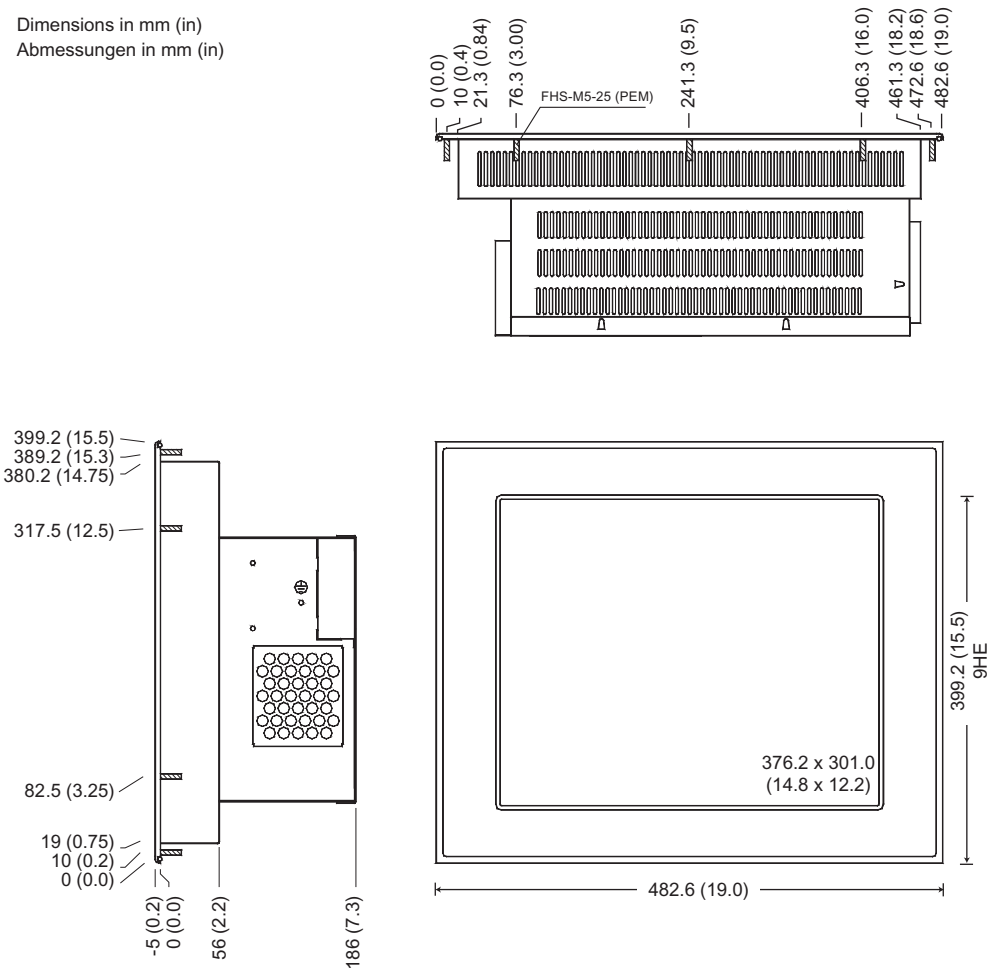
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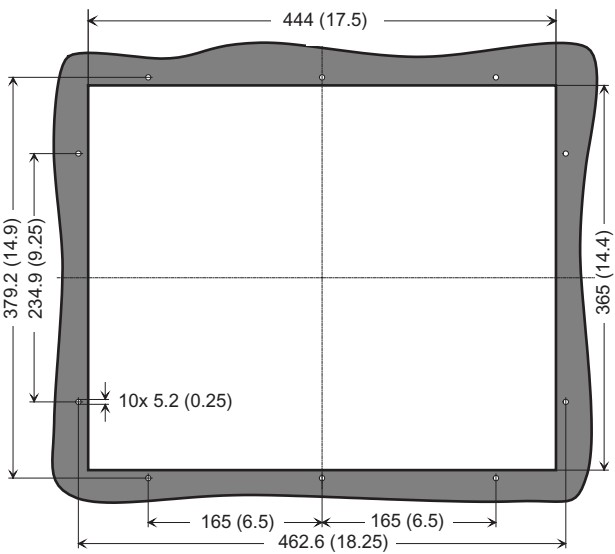
ControlCare Panel PC SPC350, 19" screen

Principle dimensions

Dimensions in mm (in)
Abmessungen in mm (in)



Cut-out



Certificates and Approvals

Approval	Attribute	12" ControlCare Panel PC SPC150	15" ControlCare Panel PC SPC350	18" ControlCare Panel PC SPC350
	CE Certificate	EMC conformity	EMC conformity	EMC conformity
	UL Certificate	in preparation	yes	yes

Documentation

Competence Brochure	<ul style="list-style-type: none">■ ControlCare - P View Competence Brochure CP 007S/04/en/09.04	<ul style="list-style-type: none">■ ControlCare Competence Brochure CP 008S/04/en/09.04
Operating Instructions	<ul style="list-style-type: none">■ ControlCare Panel PC SPC150 Operating Instructions BA 045S/04/en/01.06■ ControlCare Panel PC SPC350 Operating Instructions BA 046S/04/en/01.06	<ul style="list-style-type: none">■ ControlCare - P View Getting Started BA 042S/04/en/12.04

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