SIEMENS

Data sheet

SIMATIC IFP1900 V2, 19" multi-touch display (16:9) with 1920x1080 pixel resolution, built-in unit, for 24 V DC, display port/DVI interface, including DP/USB cable 1.8 m, on the rear USB, standard design



Figure similar

Product type designation Short designation SimATIC IFP1900 V2 Design of display Design of display Screen diagonal Screen diagonal Screen diagonal Terror designation Display width Display width Display height On Screen Display (OSD) configuration Number of colors 16 777 216; 24 bit 178° x 178° Resolution (pixels) Image resolution Pixel size, horizontal Pixel size, vertical Ceneral features Brightness/contrast In ono-reflective and tempered mineral glass screen Detachable from computer unit Luminance Backlighting Type of backlighting (at 25 °C) Backlight dimmable Pixel size, borizontal Type of backlighting (at 25 °C) Backlight dimmable Pixel size, borizontal Type of backlighting (at 25 °C) Backlight dimmable Pixel size, borizontal Type of backlighting (at 25 °C) Backlight dimmable Pixel size, borizontal Type of backlighting (at 25 °C) Backlight dimmable Pixel size, borizontal Type of backlighting (at 25 °C) Backlight dimmable Pixel size, borizontal Type of backlighting (at 25 °C) Backlight dimmable Pixel size, borizontal Type of backlighting (at 25 °C) Backlight dimmable Pixel size, borizontal Type of backlighting (at 25 °C) Backlight dimmable Pixel size, borizontal size, borizon	General information		
Display Design of display Design of display Screen diagonal Screen diagonal Terr widescreen display, LED backlighting Screen diagonal At 7 cm Display width Ad8.96 mm Display height On Screen Display (OSD) configuration Nor, Adjustable by means of software Number of colors 16 777 216; 24 bit Viewing angle 178° x 178° Resolution (pixels) Image resolution Horizontal image resolution Pixel size, horizontal Pixel size, vertical Design as features Brightness/contrast Detachable from computer unit Detachable from computer unit Luminance Backlighting Type of backlighting Type o	Product type designation	IFP1900	
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Screen diagonal 18.5 in; 19"	Display		
Screen diagonal [cm]	Design of display	TFT widescreen display, LED backlighting	
Display width 408.96 mm Display height 230.04 mm On Screen Display (OSD) configuration No; Adjustable by means of software Number of colors 16.777.216; 24 bit Viewing angle 178" x 178" Resolution (pixels) Image resolution 1920 pixel 192	Screen diagonal	18.5 in; 19"	
Display height 230.04 mm On Screen Display (OSD) configuration No; Adjustable by means of software Number of colors 16 777 216; 24 bit Viewing angle 178° x 178° Resolution (pixels) Image resolution 1920 x 1 080 Horizontal image resolution 1920 pixel Vertical image resolution 10 0.213 mm Pixel size, horizontal 0.213 mm Pixel size, vertical 0.213 mm Pixel size, vertical 0.213 mm Brightness/contrast 350 cd/m² / 1 000:1 Final pixel	Screen diagonal [cm]	47 cm	
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Number of colors Viewing angle Resolution (pixels) Image resolution Individual image resolution In	Display height	230.04 mm	
Viewing angle 178° x 178° Resolution (pixels) Image resolution 1920 x 1 080 Horizontal image resolution 1920 pixel Vertical image resolution 1920 pixel Vertical image resolution 1920 pixel Vertical image resolution 1920 pixel Pixel size, horizontal 0.213 mm Pixel size, vertical 0.213 mm General features Brightness/contrast 350 cd/m² / 1 000:1 non-reflective and tempered mineral glass screen 2 betachable from computer unit 5 m Luminance 350 cd/m² Backlighting Type of backlighting LED MTBF backlighting (at 25 °C) 50 000 h; At 25°C Backlight dimmable Yes; 0-100 % Control elements Control elements Keyboard fonts Function keys 0 Touch operation Design as touch screen Yes; Projective-capacitive Ves; Projective-capacitive	On Screen Display (OSD) configuration	No; Adjustable by means of software	
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non-reflective and tempered mineral glass screen Detachable from computer unit Detachable from computer unit Luminance 350 cd/m² Backlighting Type of backlighting MTBF backlighting (at 25 °C) Backlight dimmable Yes; 0-100 % Control elements Control elements Control elements Multi-touch screen Keyboard fonts Function keys No Number of function keys Design as touch screen Pesign as multi-touch screen Yes; Projective-capacitive Pesign as multi-touch screen Yes; Projective-capacitive	General features		
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Backlight dimmable Yes; 0-100 % Control elements Control elements multi-touch screen Keyboard fonts Function keys No No Number of function keys Design as touch screen Yes; Projective-capacitive Yes; Projective-capacitive	 Type of backlighting 	LED	
Control elements Control elements Multi-touch screen Keyboard fonts Function keys No No No No No Sumber of function keys Design as touch screen Yes; Projective-capacitive Yes; Projective-capacitive	 MTBF backlighting (at 25 °C) 	50 000 h; At 25°C	
Control elements Keyboard fonts Function keys No No Number of function keys Design as touch screen Yes; Projective-capacitive Yes; Projective-capacitive	Backlight dimmable	Yes; 0-100 %	
Keyboard fonts No ● Function keys No — Number of function keys 0 Touch operation Yes; Projective-capacitive ● Design as touch screen Yes; Projective-capacitive ● Design as multi-touch screen Yes; Projective-capacitive	Control elements		
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 — Number of function keys Touch operation ◆ Design as touch screen Design as multi-touch screen Yes; Projective-capacitive Yes; Projective-capacitive 	Keyboard fonts		
Touch operation	Function keys	No	
 Design as touch screen Design as multi-touch screen Yes; Projective-capacitive Yes; Projective-capacitive 	Number of function keys	0	
Design as multi-touch screen Yes; Projective-capacitive	Touch operation		
	 Design as touch screen 	Yes; Projective-capacitive	
Monitor keyboard Ves: If supported by operating system	3		
Tes, il supported by operating system	 Monitor keyboard 	Yes; If supported by operating system	

Installation type/mounting	
Design	Built-in unit
Front mounting	Yes
VESA mounting	Yes; VESA 100 x 100 integrated
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
Built-in unit	Yes; Portrait mode possible
maximum permitted forward tilt angle from vertical	35°
maximum permitted backward tilt angle from vertical	35°
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V; PELV / SELV floating
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	1.2 A
Current consumption, max.	1.5 A
Starting current inrush I²t	0.5 A ² ·s
Power loss	
Power loss, typ.	29 W
Power loss, max.	35 W
Interfaces	
Number of USB interfaces	2; USB 2.0 type A
USB on the rear	Yes; 2x onboard
Connection for keyboard/mouse	USB
Video interfaces	002
analog video signal (VGA)	No
• DVI-D	Yes
DisplayPort	Yes; Display port V1.2
Touch interfaces	
• USB	Yes
Degree and class of protection	
IP (at the front)	IP65
NEMA (front)	
Enclosure Type 4 at the front	Yes
 Enclosure Type 4x at the front 	Yes
Enclosure Type 12 at the front	Yes
Standards, approvals, certificates	
Certificate of suitability	hazardous zone 2/22; shipbuilding
CE mark	Yes
UL approval	Yes; cULus, cUL
cULus	Yes
FM approval	Yes; Class I Div. 2
RCM (formerly C-TICK)	Yes
EAC (formerly Gost-R)	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
Use in hazardous areas	
ATEX Zone 2	Yes; Available soon
ATEX Zone 22	Yes; Available soon
• IECEx Zone 2	Yes; Available soon
• IECEx Zone 22	Yes; Available soon
FM Class I Division 2	Yes; Available soon
Marine approval	
 Germanischer Lloyd (GL) 	Yes; Available soon
 American Bureau of Shipping (ABS) 	Yes; Available soon
 Bureau Veritas (BV) 	Yes; Available soon
 Det Norske Veritas (DNV) 	Yes; Available soon

Nippon Kaiji Kyokai (Class NK) Ambient conditions Ambient temperature during operation • min. • max. 50 °C Ambient temperature during storage/transportation • min. • max. 60 °C Ambient temperature during storage/transportation • min. • max. 60 °C Altitude during operation relating to sea level • Installation altitude above sea level, max. Relative humidity • Operation, max. 90 %; no condensation Vibrations • Vibration load in operation • Vibration load during transport/storage 10 m/s² Shock testing • Shock load during operation • shock acceleration during storage/transport 250 m/s² Mechanics/material Enclosure material (front) • Aluminum • Aluminum • Class • Class • Class • Class • Ves; at front Enclosure material (rear) Dimensions Width of the housing front Mounting cutout, width Mounting cutout, height Mounting cutout, height Cyelpt incl. packaging 5 kg Weight incl. packaging 5 kg Weight without packaging 5 kg Weight incl. packaging 7 kg	 Lloyds Register of Shipping (LRS) 	Yes; Available soon	
Ambient temperature during operation • min. • max. 50 °C Ambient temperature during storage/transportation • min. • max. 60 °C Altitude during operation relating to sea level • installation altitude above sea level, max. 81 500 m Relative humidity • Operation, max. 90 %; no condensation Vibrations • Vibration load in operation • Vibration load during transport/storage 10 m/s² Shock testing • Shock load during operation • shock acceleration during storage/transport 250 m/s² Mechanics/material Enclosure material (front) • Aluminum • Aluminum asting • Glass Fenclosure material (rear) Bimensions Width of the housing front Height of housing front 484 mm Mounting cutout, width Mounting cutout, width Mounting cutout, width Mounting cutout, width Mounting cutout, leight Overall depth Weights Weight without packaging 5 kg	 Nippon Kaiji Kyokai (Class NK) 	Yes; Available soon	
 min:	Ambient conditions		
	Ambient temperature during operation		
Ambient temperature during storage/transportation • min. • max. • max. 60 °C Altitude during operation relating to sea level • Installation altitude above sea level, max. Relative humidity • Operation, max. 90 %; no condensation Vibrations • Vibration load in operation • Vibration load during transport/storage 10 m/s² Shock testing • Shock load during operation • Shock load during operation • Shock load during storage/transport 250 m/s² Enclosure material (front) • Aluminum • Aluminum asting • Glass • Class Tes; at front Enclosure material (rear) Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights Weight without packaging	• min.	0°C	
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Max. 60 °C	Ambient temperature during storage/transportation		
Altitude during operation relating to sea level Installation altitude above sea level, max. Relative humidity Operation, max. 90 %; no condensation Vibrations Vibration load in operation Vibration load during transport/storage 10 m/s² Shock testing Shock load during operation Shock acceleration during storage/transport Enclosure material (front) Aluminum Aluminum casting Glass Finclosure material (rear) Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights Weight without packaging 5 kg	• min.	-20 °C	
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Relative humidity Operation, max. Otherations Vibration load in operation Vibration load during transport/storage Nock testing Shock testing Shock load during operation Shock acceleration during storage/transport Enclosure material (front) Aluminum Sidass Slass Sidass	Altitude during operation relating to sea level		
Operation, max. Operations Vibration load in operation Vibration load during transport/storage Operating Shock testing Shock load during operation Shock acceleration during storage/transport Mechanics/material Enclosure material (front) Aluminum Signature Sig	Installation altitude above sea level, max.	3 500 m	
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Vibration load in operation Vibration load during transport/storage Shock testing Shock load during operation Shock load during storage/transport Shock acceleration during storage/transport Mechanics/material Enclosure material (front) Aluminum Yes Aluminum casting Glass Finclosure material (rear) Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights Weight without packaging 150 m/s² 150 m/s² 250 m/s² 250 m/s² Yes Yes Yes Yes Yes 464 mm 464 mm Height of housing front 294 mm Mounting cutout, width 448 mm; Tolerance: +1 mm Overall depth 63.4 mm Weights Weight without packaging 5 kg	Operation, max.	90 %; no condensation	
Vibration load during transport/storage Shock testing	Vibrations		
Shock testing Shock load during operation Shock acceleration during storage/transport Shock acceleration during storage/transport Mechanics/material Enclosure material (front) Aluminum Sequence of Glass Aluminum casting Aluminum casting Aluminum Dimensions Width of the housing front Height of housing front Height of housing front Mounting cutout, width Ada mm; Tolerance: +1 mm Mounting cutout, height Overall depth Weights Weight without packaging 5 kg	 Vibration load in operation 	10 m/s ²	
Shock load during operation Shock acceleration during storage/transport Mechanics/material Enclosure material (front) Aluminum Aluminum Yes Aluminum Yes Glass Yes; at front Enclosure material (rear) Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights Weight without packaging 150 m/s² 250 m/s² Mechanics/material Yes Yes Yes 464 mm 464 mm 464 mm 464 mm Tolerance: +1 mm Mounting cutout, width 468 mm; Tolerance: +1 mm 63.4 mm Weights Weight without packaging 5 kg	Vibration load during transport/storage	10 m/s ²	
shock acceleration during storage/transport Mechanics/material Enclosure material (front)	Shock testing		
Mechanics/material Enclosure material (front) ● Aluminum Yes ● Aluminum casting Yes; at front ● Glass Yes; at front Enclosure material (rear) aluminum Dimensions Width of the housing front 464 mm Height of housing front 294 mm Mounting cutout, width 448 mm; Tolerance: +1 mm Mounting cutout, height 278 mm; Tolerance: +1 mm Overall depth 63.4 mm Weights Weight without packaging 5 kg	 Shock load during operation 	150 m/s ²	
Enclosure material (front) • Aluminum • Aluminum casting • Glass • Glass Enclosure material (rear) Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights Weight without packaging Yes Yes 464 mm 464 mm 464 mm 448 mm; Tolerance: +1 mm 278 mm; Tolerance: +1 mm 63.4 mm	 shock acceleration during storage/transport 	250 m/s ²	
	Mechanics/material		
● Aluminum casting Pes Glass Yes; at front aluminum Dimensions Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights Weight without packaging Yes Yes; at front 464 mm 464 mm Tolerance: +1 mm 294 mm 448 mm; Tolerance: +1 mm 63.4 mm Yeights	Enclosure material (front)		
● Glass Yes; at front Enclosure material (rear) Dimensions Width of the housing front Height of housing front Mounting cutout, width Hounting cutout, width Yes mm; Tolerance: +1 mm Overall depth Weights Weight without packaging Yes; at front aluminum 464 mm 464 mm 294 mm 448 mm; Tolerance: +1 mm 63.4 mm 5 kg	 Aluminum 	Yes	
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Dimensions Width of the housing front 464 mm Height of housing front 294 mm Mounting cutout, width 448 mm; Tolerance: +1 mm Mounting cutout, height 278 mm; Tolerance: +1 mm Overall depth 63.4 mm Weights Weight without packaging 5 kg	• Glass	Yes; at front	
Width of the housing front Height of housing front Mounting cutout, width Mounting cutout, height Overall depth Weights Weight without packaging 464 mm 294 mm 448 mm; Tolerance: +1 mm 278 mm; Tolerance: +1 mm 63.4 mm 5 kg	Enclosure material (rear)	aluminum	
Height of housing front Mounting cutout, width 448 mm; Tolerance: +1 mm Mounting cutout, height 278 mm; Tolerance: +1 mm Overall depth 63.4 mm Weights Weight without packaging 5 kg	Dimensions		
Mounting cutout, width Mounting cutout, height 278 mm; Tolerance: +1 mm Overall depth 63.4 mm Weights Weight without packaging 5 kg	Width of the housing front	464 mm	
Mounting cutout, height 278 mm; Tolerance: +1 mm Overall depth 63.4 mm Weights Weight without packaging 5 kg	Height of housing front	294 mm	
Overall depth 63.4 mm Weights Weight without packaging 5 kg	Mounting cutout, width	448 mm; Tolerance: +1 mm	
Weights Weight without packaging 5 kg	Mounting cutout, height	278 mm; Tolerance: +1 mm	
Weight without packaging 5 kg	Overall depth	63.4 mm	
	Weights		
Weight incl. packaging 7 kg	Weight without packaging	5 kg	
	Weight incl. packaging	7 kg	

1/16/2021

last modified: