Data sheet

SIMATIC IFP1900 Flat Panel 19" display (16: 9), Multitouch, 1366x 768 pixels, for 24 V DC, display port interface Ethernet interface incl. DP/USB cable 1.8 m



Figure similar

General information		
Product type designation	IFP1900	
Short designation	Flat Panel 19" multi-touch Ethernet	
Display		
Design of display	TFT widescreen display, LED backlighting	
Screen diagonal	18.5 in	
Screen diagonal [cm]	47 cm	
Display width	409.8 mm	
Display height	230.4 mm	
On Screen Display (OSD) configuration	No; Adjustable by means of software	
Number of colors	16 777 216; 24 bit	
Viewing angle	170° x 160°	
Resolution (pixels)		
Horizontal image resolution	1 366 Pixel	
 Vertical image resolution 	768 Pixel	
Pixel size, horizontal	0.3 mm	
Pixel size, vertical	0.3 mm	

	General features	
• Luminance 300 cd/m² Backlighting • Type of backlighting		300 cd/m² / 1 000·1
Backlighting Type of backlighting Type of backlighting (at 25 °C) Backlight dimmable Tool of backlight dimmable End of the Exploration Reys Function keys Function keys Function keys Posign as bouch screen Touch operation Pasign as bouch screen Pasign as bouc		
■ Type of backlighting ■ MTBF backlighting (at 25 °C) ■ Backlight dimmable Yes; 0-100 % Souther dements Keyboard fonts ■ Function keys ■ No ■ No ■ Number of function keys ■ No ■ Design as touch screen ▼ Design as touch screen ■ Design as touch screen ■ Uses in a stallation type/mounting Built-in unit maximum permitted forward tilt angle from vertical maximum permitted backward tilt angle from vertical maximum permitted backward tilt angle from vertical ■ Supply voltage Type of supply voltage Type of supply voltage DC Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) 28.8 V Power loss Power loss, typ. Power loss, typ. Power loss, max. 10 W Power loss, max. 10		300 ca/m²
MTBF backlighting (at 25 °C) Backlight dimmable Ves; 0-100 % Control elements Keyboard fonts Punction keys Punction keys O Design as touch screen Ves Installation type/mounting Built-in unit Maximum permitted forward tilt angle from vertical maximum permitted backward tilt angle from vertical maximum permitted backward tilt angle from vertical soft supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Power loss Power loss, typ. Power loss, max. Interfaces Number of Industrial Ethernet interfaces Palago signal (VGA) PospipyPort Poss DisplayPort V1.1 Touch interfaces USB Industrial Ethernet Transmission rate, max. 1 000 Mbit/s Degree and class of protection Ple66 at the front Ple6 at the front Ple6 at the front Ple6 at the front Ple6 at the front Ple66 at the front Ple76 at the front Ple76 at the front Ple76 at the front Ple76 at the front		
Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts Function keys No		
Keyboard fonts • Function keys — Number of function keys Design as touch screen • Design as touch screen **Supply worting** Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V Power loss. **Power loss. typ. **Power	 MTBF backlighting (at 25 °C) 	
Function keys Function keys No No No No No No No No No N	Backlight dimmable	Yes; 0-100 %
Function keys No No No Number of function keys Possign as touch screen Press Touch operation Design as touch screen Press Notalitation type/mounting Built-in unit maximum permitted forward tilt angle from vertical maximum permitted forward tilt angle from vertical maximum permitted backward tilt angle from vertical Supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Power loss Power loss, typ. Power loss, typ. Power loss, max. 65 W Interfaces Number of industrial Ethernet interfaces Pasing video signal (VGA) DisplayPort Touch interfaces Puss Puss Puss Possible range, video signal (VGA) DisplayPort Touch interfaces Puss Puss Puss Puss Possible range, video signal (VGA) DisplayPort Possible range, video signal (VGA) Puss Pu	Control elements	
Touch operation Design as touch screen Pessign as touch screen Pessi	Keyboard fonts	
Touch operation Design as touch screen Pess Built-in unit Mess; Portrait mode possible maximum permitted forward tilt angle from vertical Maximum permitted backward tilt angle from vertical Supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) Power loss, puper limit (DC) Power loss, typ. Power loss, max. Supply voltage 1; Ethernet, 1 port, RJ45 USB on the rear Ves; 2x onboard Ves; 2x onboard Ves; DisplayPort V1.1 Touch interfaces USB Industrial Ethernet Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) Pess IP 66 IP 64 the front Pess Interface Yes Pess Interface Yes Poss P	Function keys	No
Design as touch screen Pessible installation type/mounting Built-in unit Maximum permitted forward tilt angle from vertical Sossible maximum permitted backward tilt angle from vertical Sossible Type of supply voltage Type of supply voltage Type of supply voltage DC Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Power loss Power loss, typ. Power loss, max. 65 W Interfaces Number of industrial Ethernet interfaces USB on the rear Video interfaces • analog video signal (VGA) • DisplayPort Touch interfaces • USB Industrial Ethernet • Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) • IP66 • IP65 at front • IP66 at the front	 Number of function keys 	0
Built-in unit maximum permitted forward tilt angle from vertical maximum permitted backward tilt angle from vertical maximum permitted backward tilt angle from vertical 35° Supply voltage Type of supply voltage Rated value (DC) 24 V permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V Power loss Power loss, typ. 40 W Power loss, max. 65 W Interfaces Number of industrial Ethernet interfaces 1; Ethernet, 1 port, RJ45 USB on the rear Video interfaces • analog video signal (VGA) • DisplayPort Touch interfaces • USB Industrial Ethernet • Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) • IP66 • IP65 at front • IP66 at the front	Touch operation	
Built-in unit maximum permitted forward tilt angle from vertical maximum permitted backward tilt angle from vertical 35° Supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Power loss Power loss Power loss, typ. Power loss, max. 65 W Interfaces Number of industrial Ethernet interfaces USB on the rear Video interfaces • analog video signal (VGA) • DisplayPort Touch interfaces • USB Industrial Ethernet • Transmission rate, max. 1 000 Mbit/s Poegree and class of protection IP (at the front) • IP66 • IP65 at front • IP66 at the front	Design as touch screen	Yes
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Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Power loss Power loss, typ. Power loss, max. 65 W Interfaces Number of industrial Ethernet interfaces USB on the rear Video interfaces • analog video signal (VGA) • DisplayPort Touch interfaces • USB USB Touch interfaces • Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) • IP66 • IP65 at front • IP66 at the front Ves (Ves) Ves (Ves) Power loss, vy. 24 V 40 W 65 W 765 W 807 40 W 765 W 808 809 809 809 809 809 809 80	maximum permitted forward tilt angle from vertical	35°
DC	maximum permitted backward tilt angle from vertical	35°
Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) 28.8 V Power loss Power loss, typ. 40 W Power loss, max. 65 W Interfaces Number of industrial Ethernet interfaces 1; Ethernet, 1 port, RJ45 USB on the rear Yes; 2x onboard Video interfaces • analog video signal (VGA) • DisplayPort Yes; DisplayPort V1.1 Touch interfaces • USB Yes Industrial Ethernet • Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) • IP66 • IP66 at the front Yes	Supply voltage	
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Power loss Power loss, typ. 40 W Power loss, max. 65 W Interfaces Number of industrial Ethernet interfaces 1; Ethernet, 1 port, RJ45 USB on the rear Yes; 2x onboard Video interfaces • analog video signal (VGA) No • DisplayPort Yes; DisplayPort V1.1 Touch interfaces • USB Yes Industrial Ethernet • Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) IP66 • IP66 at the front Yes	permissible range, lower limit (DC)	19.2 V
Power loss, typ. 40 W Power loss, max. 65 W Interfaces Number of industrial Ethernet interfaces 1; Ethernet, 1 port, RJ45 USB on the rear Yes; 2x onboard Video interfaces • analog video signal (VGA) No • DisplayPort Yes; DisplayPort V1.1 Touch interfaces • USB Yes Industrial Ethernet • Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) IP66 • IP65 at front • IP66 at the front Yes	permissible range, upper limit (DC)	28.8 V
Power loss, max. 1	Power loss	
Number of industrial Ethernet interfaces 1; Ethernet, 1 port, RJ45 Ves; 2x onboard Video interfaces • analog video signal (VGA) • DisplayPort Touch interfaces • USB Ves Ves Industrial Ethernet • Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) • IP65 at front • IP66 at the front Ves 1; Ethernet, 1 port, RJ45 Yes; 2x onboard Ves; DisplayPort V1.1 100 Mobit/s	Power loss, typ.	40 W
Number of industrial Ethernet interfaces USB on the rear Yes; 2x onboard Video interfaces analog video signal (VGA) DisplayPort Touch interfaces USB Yes Industrial Ethernet Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) Yes Yes	Power loss, max.	65 W
USB on the rear Video interfaces analog video signal (VGA) DisplayPort Ves; DisplayPort V1.1 Touch interfaces USB Yes Industrial Ethernet Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) IP (at the front) IP 66 IP66 at the front Yes	Interfaces	
Video interfaces • analog video signal (VGA) • DisplayPort Touch interfaces • USB • Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) • IP66 at the front • IP66 at the front • IP66 at the front Yes	Number of industrial Ethernet interfaces	1; Ethernet, 1 port, RJ45
 analog video signal (VGA) DisplayPort Yes; DisplayPort V1.1 Touch interfaces USB Yes Industrial Ethernet Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) IP66 IP65 at front IP66 at the front Yes IP66 at the front Yes IP66 at the front Yes IP66 at the front Yes	USB on the rear	Yes; 2x onboard
DisplayPort Yes; DisplayPort V1.1 Touch interfaces USB Yes Industrial Ethernet Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) IP66 IP65 at front Yes IP66 at the front Yes	Video interfaces	
Touch interfaces USB Yes Industrial Ethernet Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) IP (at the front) IP 66 IP 65 at front Yes IP 66 at the front Yes	 analog video signal (VGA) 	No
USB Industrial Ethernet Transmission rate, max. Degree and class of protection IP (at the front) IP (at the front) IP 66 Yes IP 66 at the front Yes Yes	DisplayPort	Yes; DisplayPort V1.1
Industrial Ethernet • Transmission rate, max. 1 000 Mbit/s Degree and class of protection IP (at the front) • IP65 at front • IP66 at the front Yes • IP66 at the front Yes	Touch interfaces	
Transmission rate, max. Degree and class of protection IP (at the front) IP66 IP65 at front IP66 at the front Yes Yes	• USB	Yes
Degree and class of protection IP (at the front) IP66 IP65 at front IP66 at the front Yes Yes	Industrial Ethernet	
IP (at the front) ■ IP65 at front ■ IP66 at the front Yes Yes	Transmission rate, max.	1 000 Mbit/s
 IP65 at front IP66 at the front Yes Yes 	Degree and class of protection	
• IP66 at the front Yes	IP (at the front)	IP66
	● IP65 at front	Yes
IP (rear)	• IP66 at the front	Yes
	IP (rear)	

• IP20 rear	Yes	
NEMA (front)		
Enclosure Type 4 at the front	Yes	
Enclosure Type 4x at the front	Yes	
Enclosure Type 12 at the front	Yes	
NEMA4 at the front	No	
NEMA4X at the front	No	
Standards, approvals, certificates		
CE mark	Yes	
cULus	Yes; Corresponds to UL 508	
RCM (formerly C-TICK)	Yes	
KC approval	Yes	
EAC (formerly Gost-R)	Yes	
Use in hazardous areas		
ATEX Zone 2	Yes; Available soon	
ATEX 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	
Lloyds Register of Shipping (LRS)	Yes; Available soon	
 Nippon Kaiji Kyokai (Class NK) 	Yes; Available soon	
Ambient conditions		
Ambient temperature during operation		
• min.	0 °C	
● max.	45 °C; Vertical installation (horizontal)	
Ambient temperature during storage/transportation		
• min.	-20 °C	
● max.	60 °C	
Vibrations		
 Vibration load in operation 	10 m/s²	
 Vibration load during transport/storage 	10 m/s²	
Shock testing		
Shock load during operation	150 m/s²	
 Shock load during transport/storage 	150 m/s²	
Mechanics/material		
Enclosure material (front)		
• Glass	Yes	

Dimensions	
Width of the housing front	483 mm
Height of housing front	337 mm
Mounting cutout, width	465 mm; Tolerance: +1 mm
Mounting cutout, height	319 mm; Tolerance: +1 mm
Overall depth	62.5 mm
Weights	

Weights	
Weight without packaging	5.8 kg
Weight incl. packaging	6.8 kg

03/14/2020 last modified: