

## PC-based Automation

Industrial monitors and Thin Clients  
Flat Panels

### SIMATIC Industrial Flat Panels

#### Overview



The Industrial Flat Panels are rugged industry-standard LCD monitors in a wide screen design.

- Installation:
  - Equally suited for installation in the machine, in control cabinets, in consoles, to gantries, or in 19" racks.
- Type of operator control:
  - Simple display devices without operator functionality
  - Optional devices with touch control
  - Optional devices with multi-touch control
  - Rear-mounted connection of I/O devices (optional)

Industrial Flat Panels are now available as fully enclosed Flat Panels.

- IFP1900 PRO (degree of protection IP65)
- Ethernet monitor IFP1900/IFP2200 for remote connection via standard Ethernet (TCP/IP)

#### Technical specifications

Article number	6AV7863-2AA0-0AA0	6AV7863-2AB10-0AA0	6AV7863-2BB10-0AA0	6AV7863-2TA00-0AA0	6AV7863-2TB10-0AA0
	SIMATIC FLAT PANEL 15" DISPLAY ONLY	SIMATIC FLAT PANEL 15" DISPLAY ONLY EXT	SIMATIC FLAT PANEL 15" TOUCH/KEY	SIMATIC FLAT PANEL 15" TOUCH	SIMATIC FLAT PANEL 15" TOUCH EXT
<b>General information</b>					
Product type designation	IFP1500	IFP1500	IFP1500	IFP1500	IFP1500
Short designation	Flat Panel 15" display	Flat Panel 15" display ext.	Flat Panel 15" touch/keys	Flat Panel 15" touch	Flat Panel 15" touch ext.
<b>Display</b>					
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	15.4 in	15.4 in	15.4 in	15.4 in	15.4 in
Screen diagonal [cm]	40 cm	40 cm	40 cm	40 cm	40 cm
Display width	331.2 mm	331.2 mm	331.2 mm	331.2 mm	331.2 mm
Display height	207 mm	207 mm	207 mm	207 mm	207 mm
Viewing angle	170° x 170°	170° x 170°	170° x 170°	170° x 170°	170° x 170°
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
<b>Resolution (pixels)</b>					
• Horizontal image resolution	1 280 Pixel	1 280 Pixel	1 280 Pixel	1 280 Pixel	1 280 Pixel
• Vertical image resolution	800 Pixel	800 Pixel	800 Pixel	800 Pixel	800 Pixel
• Pixel size, horizontal	0.259 mm	0.259 mm	0.259 mm	0.259 mm	0.259 mm
• Pixel size, vertical	0.259 mm	0.259 mm	0.259 mm	0.259 mm	0.259 mm
<b>General features</b>					
• Detachable from computer unit	5 m	30 m	5 m	5 m	5 m
• Brightness/contrast	400 cd/m <sup>2</sup> / 1000:1	400 cd/m <sup>2</sup> / 1000:1	400 cd/m <sup>2</sup> / 1000:1	400 cd/m <sup>2</sup> / 1000:1	400 cd/m <sup>2</sup> / 1000:1
• non-reflective and tempered mineral glass screen	Yes	Yes	Yes	Yes	Yes
<b>Backlighting</b>					
• Type of backlighting	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
• Backlight dimmable	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %
<b>Keyboard fonts</b>					
• Function keys	No	No		No	No
- Number of function keys			36		
<b>Touch operation</b>					
• Monitor keyboard			Yes	Yes	Yes

#### Technical specifications (continued)

Article number	<b>6AV7863-3MA00-0AA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH	<b>6AV7863-3MA00-0SA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH	<b>6AV7863-3MA20-0AA0</b> SIMATIC FLAT PANEL 19" MT ETH	<b>6AV7863-3MB10-0AA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH EXT	<b>6AV7863-3MB10-0SA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH EXT
<b>General information</b>					
Product type designation	IFP1900	IFP1900 MT	IFP1900	IFP1900	IFP1900 MT
Short designation	Flat Panel 19" multi-touch	Flat Panel 19" multi-touch marine	Flat Panel 19" multi-touch Ethernet	Flat Panel 19" multi-touch ext.	Flat Panel 19" multi-touch ext. marine
<b>Display</b>					
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting		TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	18.5 in	18.5 in	18.5 in	18.5 in	18.5 in
Screen diagonal [cm]	47 cm	47 cm	47 cm	47 cm	47 cm
Display width	409.8 mm	409.8 mm	409.8 mm	409.8 mm	409.8 mm
Display height	230.4 mm	230.4 mm	230.4 mm	230.4 mm	230.4 mm
Viewing angle	170° x 160°	170° x 160°	170° x 160°	170° x 160°	170° x 160°
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software		No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
<b>Resolution (pixels)</b>					
• Horizontal image resolution	1 366 Pixel	1 366 Pixel	1 366 Pixel	1 366 Pixel	1 366 Pixel
• Vertical image resolution	768 Pixel	768 Pixel	768 Pixel	768 Pixel	768 Pixel
• Pixel size, horizontal	0.3 mm	0.3 mm	0.3 mm	0.3 mm	0.3 mm
• Pixel size, vertical	0.3 mm	0.3 mm	0.3 mm	0.3 mm	0.3 mm
<b>General features</b>					
• Detachable from computer unit	5 m	5 m		30 m	30 m
• Brightness/contrast	300 cd/m <sup>2</sup> / 1000:1	400 cd/m <sup>2</sup> / 1000:1	300 cd/m <sup>2</sup> / 1000:1	300 cd/m <sup>2</sup> / 1000:1	300 cd/m <sup>2</sup> / 1000:1
• non-reflective and tempered mineral glass screen	Yes	Yes		Yes	Yes
<b>Backlighting</b>					
• Type of backlighting	LED	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
• Backlight dimmable	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %
<b>Keyboard fonts</b>					
• Function keys	No		No	No	No
<b>Touch operation</b>					
• Monitor keyboard	Yes	Yes		Yes	Yes
<b>Installation type/mounting</b>					
Built-in unit	Yes; Portrait mode possible	Yes; Portrait mode possible	Yes; Portrait mode possible	Yes; Portrait mode possible	Yes; Portrait mode possible
• permissible angle to the vertical backward (console)	35°	35°	35°	35°	35°
• permissible angle to the vertical forward (ceiling mounting)	35°	35°	35°	35°	35°
<b>Supply voltage</b>					
Type of supply voltage	DC	DC	DC	AC/DC	AC/DC
Rated value (DC)	24 V; PELV	24 V; PELV	24 V	24 V; PELV	24 V; PELV
permissible range, lower limit (DC)	19.2 V	19.2 V	19.2 V	19.2 V	19.2 V
permissible range, upper limit (DC)	28.8 V	28.8 V	28.8 V	28.8 V	28.8 V
Rated value (AC)				100 V; Up to 240V, 50/60 Hz	100 V; Up to 240V, 50/60 Hz
permissible range, lower limit (AC)				90 V	90 V
permissible range, upper limit (AC)				264 V	264 V
<b>Power loss</b>					
Power loss AC					
• Typical	40 W			40 W	40 W
• Maximum	60 W			60 W	60 W
Power loss DC					
• Typical	40 W	40 W	40 W	40 W	40 W
• Maximum	65 W	65 W	65 W	65 W	65 W

## PC-based Automation

### Industrial monitors and Thin Clients Flat Panels

#### SIMATIC Industrial Flat Panels

#### Technical specifications (continued)

Article number	<b>6AV7863-3MA00-0AA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH	<b>6AV7863-3MA00-0SA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH	<b>6AV7863-3MA20-0AA0</b> SIMATIC FLAT PANEL 19" MT ETH	<b>6AV7863-3MB10-0AA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH EXT	<b>6AV7863-3MB10-0SA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH EXT
<b>Interfaces</b>					
Number of Industrial Ethernet interfaces			1; Ethernet, 1 port, RJ45		
USB on the rear			2	2	2
Connection for keyboard/mouse				USB	USB
<b>Video interfaces</b>					
• DVI-D	Yes	Yes		Yes	Yes
• DisplayPort	Yes; DisplayPort V1.1	Yes; DisplayPort V1.1	Yes; DisplayPort V1.1	Yes; DisplayPort V1.1	Yes; DisplayPort V1.1
<b>Touch interfaces</b>					
• USB	Yes	Yes	Yes	Yes	Yes
<b>Industrial Ethernet</b>					
• Transmission rate, max.			1 000 Mbit/s		
<b>Degree and class of protection</b>					
IP65 at front	Yes	Yes	Yes	Yes	Yes
IP66 at the front			Yes		
Enclosure Type 4 at the front	Yes	Yes	Yes	Yes	Yes
Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes
Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes
NEMA4 at the front	No	No	No	No	No
NEMA4X at the front	No	No	No	No	No
IP20 rear	Yes	Yes	Yes	Yes	Yes
<b>Standards, approvals, certificates</b>					
CE mark	Yes	Yes	Yes	Yes	Yes
cULus	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508	Yes; Corresponds to UL 508
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)		Yes	Yes		Yes
<b>Marine approval</b>					
• Germanischer Lloyd (GL)	No	Yes	Yes; Available soon	No	Yes
• American Bureau of Shipping (ABS)	No	Yes	Yes; Available soon	No	Yes
• Bureau Veritas (BV)	No	Yes	Yes; Available soon	No	Yes
• Det Norske Veritas (DNV)	No	Yes	Yes; Available soon	No	Yes
• Lloyds Register of Shipping (LRS)	No	Yes	Yes; Available soon	No	Yes
• Nippon Kaiji Kyokai (Class NK)	No	Yes	Yes; Available soon	No	Yes
<b>Use in hazardous areas</b>					
• ATEX Zone 2	No; Available soon	No	Yes; Available soon	Yes; Available soon	No
• ATEX Zone 22	Yes; Available soon	Yes	Yes; Available soon	Yes; Available soon	No
• FM Class I Division 2	Yes	Yes	Yes; Available soon	No	No
<b>Ambient conditions</b>					
<b>Ambient temperature during operation</b>					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C; Vertical installation (horizontal)	45 °C; Vertical installation (horizontal)	45 °C; Vertical installation (horizontal)	45 °C; Vertical installation (horizontal)	45 °C; Vertical installation (horizontal)
<b>Ambient temperature during storage/transportation</b>					
• min.	-20 °C	-20 °C	-20 °C	-20 °C	-20 °C
• max.	60 °C	60 °C	60 °C	60 °C	60 °C
<b>Relative humidity</b>					
• Operation, max.	95 %; no condensation	95 %; no condensation		95 %; no condensation	95 %; no condensation
<b>Vibrations</b>					
• Vibration load in operation	1 gn	1 gn	1 gn	1 gn	1 gn
• Vibration load during transport/storage	1 gn	1 gn	1 gn	1 gn	1 gn
<b>Shock testing</b>					
• Shock load during operation	15 gn	15 gn	15 gn	15 gn	15 gn
• Shock load during transport/storage	15 gn	15 gn	15 gn	15 gn	15 gn

#### Technical specifications (continued)

Article number	<b>6AV7863-3MA00-0AA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH	<b>6AV7863-3MA00-0SA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH	<b>6AV7863-3MA20-0AA0</b> SIMATIC FLAT PANEL 19" MT ETH	<b>6AV7863-3MB10-0AA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH EXT	<b>6AV7863-3MB10-0SA0</b> SIMATIC FLAT PANEL 19" MULTI-TOUCH EXT
<b>Connection method</b>					
Connector (IEC) for cold condititons				Yes	Yes
<b>Mechanics/material</b>					
Enclosure material (front)					
• Glass	Yes	Yes	Yes	Yes	Yes
<b>Dimensions</b>					
Width of the housing front	483 mm	483 mm	483 mm	483 mm	483 mm
Height of housing front	337 mm	337 mm	337 mm	337 mm	337 mm
Mounting cutout, width	465 mm; Tolerance: +1 mm	465 mm; Tolerance: +1 mm	465 mm; Tolerance: +1 mm	465 mm; Tolerance: +1 mm	465 mm; Tolerance: +1 mm
Mounting cutout, height	319 mm; Tolerance: +1 mm	319 mm; Tolerance: +1 mm	319 mm; Tolerance: +1 mm	319 mm; Tolerance: +1 mm	319 mm; Tolerance: +1 mm
Overall depth	62.5 mm	62.5 mm	62.5 mm	62.5 mm	62.5 mm
<b>Weights</b>					
Weight without packaging	5.5 kg	5.5 kg	5.8 kg	5.5 kg	5.5 kg
Weight incl. packaging	6.5 kg	6.5 kg	6.8 kg	6.5 kg	6.5 kg

Article number	<b>6AV7863-4AA00-0AA0</b> SIMATIC FLAT PANEL 22" DISPLAY ONLY	<b>6AV7863-4AB10-0AA0</b> SIMATIC FLAT PANEL 22" DISPLAY ONLY EXT	<b>6AV7863-4TA00-0AA0</b> SIMATIC FLAT PANEL 22" TOUCH	<b>6AV7863-4TB10-0AA0</b> SIMATIC FLAT PANEL 22" TOUCH EXT
<b>General information</b>				
Product type designation	IFP2200	IFP2200	IFP2200	IFP2200
Short designation	Flat Panel 22" display	Flat Panel 22" display ext.	Flat Panel 22" touch	Flat Panel 22" touch ext.
<b>Display</b>				
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	21.5 in	21.5 in	21.5 in	21.5 in
Screen diagonal [cm]	56 cm	56 cm	56 cm	56 cm
Display width	476 mm	476 mm	476 mm	476 mm
Display height	268 mm	268 mm	268 mm	268 mm
Viewing angle	170° x 170°	170° x 170°	170° x 170°	170° x 170°
On Screen Display (OSD) configuration	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software	No; Adjustable by means of software
Number of colors	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit	16 777 216; 24 bit
<b>Resolution (pixels)</b>				
• Horizontal image resolution	1 920 Pixel	1 920 Pixel	1 920 Pixel	1 920 Pixel
• Vertical image resolution	1 080 Pixel	1 080 Pixel	1 080 Pixel	1 080 Pixel
• Pixel size, horizontal	0.2475 mm	0.2475 mm	0.2475 mm	0.2475 mm
• Pixel size, vertical	0.2475 mm	0.2475 mm	0.2475 mm	0.2475 mm
<b>General features</b>				
• Detachable from computer unit	5 m	30 m	5 m	30 m
• Brightness/contrast	250 cd/m <sup>2</sup> / 1000:1	250 cd/m <sup>2</sup> / 1000:1	250 cd/m <sup>2</sup> / 1000:1	250 cd/m <sup>2</sup> / 1000:1
• non-reflective and tempered mineral glass screen	Yes	Yes		
<b>Backlighting</b>				
• Type of backlighting	LED	LED	LED	LED
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C
• Backlight dimmable	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %
<b>Keyboard fonts</b>				
• Function keys	No	No	No	No
<b>Touch operation</b>				
• Monitor keyboard			Yes	Yes

## PC-based Automation

### Industrial monitors and Thin Clients Flat Panels

#### SIMATIC Industrial Flat Panels

#### Ordering data

##### Industrial Flat Panel Monitor

##### SIMATIC IFP1500

Flat Panel 15" display (16:10),  
display port/DVI port

without touch screen, display only,  
1 280 x 800 pixels, for 24 V DC

- Standard up to 5 m,  
incl. DVI cable 1.8 m
- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m

with touch screen and pushbuttons,  
1 280 x 800 pixels, for 24 V DC and  
100-240 V AC

- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m

Multi-touch, 1 366 x 768,  
for 24 V DC

- Standard up to 5 m,  
incl. DVI/USB cable 1.8 m
- Standard up to 5 m,  
marine approval,  
incl. DVI/USB cable 1.8 m

Multi-touch, 1 366 x 768 pixels,  
for 24 V DC and 100-240 V AC

- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m
- Extended version up to 30 m,  
marine approval,  
incl. DVI/USB cable 1.8 m

Touch, 1 280 x 800 pixels,  
for 24 V DC

- Standard up to 5 m,  
incl. DVI cable 1.8 m

Touch, 1 280 x 800 pixels,  
for 24 V DC and 100-240 V AC

- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m

##### SIMATIC IFP1900

Flat Panel 19" display (16:10),  
display port/DVI port

without touch screen, display only,  
1 366 x 768 pixels, for 24 V DC

- Standard up to 5 m,  
incl. DVI cable 1.8 m
- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m

Multi-touch, 1 366 x 768,  
for 24 V DC

- Standard up to 5 m,  
incl. DVI/USB cable 1.8 m
- Standard up to 5 m,  
marine approval,  
incl. DVI/USB cable 1.8 m
- Display port, Ethernet interface,  
incl. DVI/USB cable 1.8 m

Multi-touch, 1 366 x 768 pixels,  
for 24 V DC and 100-240 V AC

- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m
- Extended version up to 30 m,  
marine approval,  
incl. DVI/USB cable 1.8 m

Touch, 1 366 x 768 pixels,  
for 24 V DC

- Standard up to 5 m,  
incl. DVI cable 1.8 m

Touch, 1 366 x 768 pixels,  
for 24 V DC and 100-240 V AC

- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m

#### Article No.

6AV7863-2AA00-0AA0

6AV7863-2AB10-0AA0

6AV7863-2BB10-0AA0

6AV7863-2MA00-0AA0

6AV7863-2MA00-0SA0

6AV7863-2MB10-0AA0

6AV7863-2MB10-0SA0

6AV7863-2TA00-0AA0

6AV7863-2TB10-0AA0

6AV7863-3AA00-0AA0

6AV7863-3AB10-0AA0

6AV7863-3MA00-0AA0

6AV7863-3MA00-0SA0

6AV7863-3MA20-0AA0

6AV7863-3MB10-0AA0

6AV7863-3MB10-0SA0

6AV7863-3TA00-0AA0

6AV7863-3TB10-0AA0

#### Article No.

##### SIMATIC IFP2200

Flat Panel 22" display (16:10),  
display port/DVI port

without touch screen, display only,  
1 920 x 1 080 pixels, for 24 V DC

- Standard up to 5 m,  
incl. DVI cable 1.8 m

without touch screen, display only,  
1 920 x 1 080 pixels, for 24 V DC  
and 100-240 V AC

- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m

Multi-touch, 1 920 x 1 080 pixels,  
for 24 V DC

- Standard up to 5 m,  
incl. DVI/USB cable 1.8 m

• Standard up to 5 m,

- marine approval,  
incl. DVI/USB cable 1.8 m

- Display port, Ethernet interface,  
incl. DVI/USB cable 1.8 m

Multi-touch, 1 920 x 1 080 pixels,  
for 24 V DC and 100-240 V AC

- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m

- Extended version up to 30 m,  
marine approval,  
incl. DVI/USB cable 1.8 m

Touch, 1 920 x 1 080 pixels,  
for 24 V DC

- Standard up to 5 m,  
incl. DVI cable 1.8 m

Touch, 1 920 x 1 080 pixels,  
for 24 V DC and 100-240 V AC

- Extended version up to 30 m,  
incl. DVI/USB cable 1.8 m

##### Accessories

**Set of protective films  
for ITC/IFP/TP1500**

6AV2124-6QJ00-0AX1

**Set of protective films  
for ITC/IFP/TP1900**

6AV2124-6UJ00-0AX1

**Set of protective films  
for ITC/IFP/TP2200**

6AV2124-6XJ00-0AX1

##### Touch pen

Undetachable pen for operation  
of the touch devices,  
mounting of the support on the control  
cabinet or directly on the PRO unit

6AV7672-1JB00-0AA0

**Accessories for  
standard variants up to 5 m**

(6AV7863-...A0.-0AA0  
and 6AV7466-1TA00-0AA0)

**DisplayPort cable  
(industrial quality)**

- 3 m
- 5 m

6AV7860-0DH30-0AA0

6AV7860-0DH50-0AA0

**DVI-D cable  
(industrial quality)**

- 3 m
- 5 m

6AV7860-0BH30-0AA0

6AV7860-0BH50-0AA0

**USB cable  
(industrial quality)**

- 3 m
- 5 m

6AV7860-0CH30-0AA0

6AV7860-0CH50-0AA0

**Accessories for extended variants  
up to 30 m (6AV7863-...B1.-0AA0)**

**Cable set  
(USB/Cat5; sender module, DVI)**

- 10 m
- 15 m
- 20 m
- 30 m

6AV7860-1EX21-0AA1

6AV7860-1EX21-5AA1

6AV7860-1EX22-0AA1

6AV7860-1EX23-0AA1

**Cable set 90°**

USB/Cat5; sender module,  
DVI 90° angle, 20 m

6AV7860-1EX22-0BA1

## PC-based Automation

Devices for special requirements

Devices with stainless steel front

### SIMATIC IFP1900 INOX PRO

#### Overview

##### **SIMATIC IFP1900 INOX PRO**

Industrial Flat Panel in fully enclosed stainless steel housing with high degree of protection for machine-level operation and monitoring in the food and beverage, pharmaceutical and fine chemicals industries and in other areas where hygienic requirements are high.

The device has been developed on the basis of EN 1672-2 "Food processing machinery – Safety and hygiene requirements".

With its fully protected design and optional expansion modules, the SIMATIC PRO devices are eminently suitable for industrial and machine-level use.

The INOX PRO devices with their stainless steel housing are compact and hygienically designed and feature integrated operating elements. They are also even better equipped to meet the high requirements presented by the food and beverage production environment. IP66K degree of protection protects against water, even with a jet strength of 100 l/min at 10 bar from a distance of 2.5 m to 3 m.

The optimized profile and minimal housing depth allow liquids to run off.

The high quality requirements in the food and beverages industry require a high standard of the food processing machinery. There are many relevant regulations, directives, ordinances, standards and laws. Essential here is that all equipment and components are easy to clean and disinfect so that cross-contamination of foodstuffs can be avoided.

#### Technical specifications

	IFP1900 INOX PRO	
	Pedestal mounting	Support arm mounting
Special features	Pedestal mounting	Support arm mounting
<b>General features</b>		
Display	18.5" TFT widescreen display	
Resolution (pixels)	1 366 x 768	
MTBF of backlit display (at 25°C)	50,000 h	
Power supply	24 V DC	
<b>Equipment</b>		
Touch	Analog-resistive touch (single touch)	
Control elements	2 x illuminated pushbutton with LED (red, green), 1 x emergency off; permanently wired on terminals	
Option	External, USB interface on rear with captive stainless steel lock	
<b>Special features</b>	Flange adapter for pedestal	Flange adapter for support arm
<b>Configuration / interfaces</b>		
	Based on SIMATIC IFP1900 (6AV7863-3MA20-0AA0)	
	1 x DisplayPort interface	
	1 x Ethernet interface (RJ45) up to 1 Mbit/s	
	2 x USB interface	
	For connecting to an IPC427D with these system requirements:	
	<ul style="list-style-type: none"> <li>• Configuration 1:1, without multi-monitor mode</li> <li>• RAM min. 2 GB</li> <li>• Operating systems Windows 7, WES7</li> <li>• Ethernet with min. 100 Mbit/s</li> </ul>	
<b>Enclosure</b>		
Front	Stainless steel 1.4301, polyester-based membrane	
Material	Stainless steel 1.4301	
Surface	Hairline finish, 240 grit abrasive grain	
Device seals	FPM, molded parts, replaceable	
Special features	Decorative display membrane; without USB port on front	