

SIMATIC HMI, IWP900, Industrial Web panel, key/touch operation, 9" TFT display, 65536 colors, PROFINET interface, HTML5, stand-alone, no WinCC configuration required, contains Open Source software, which is provided free of charge



General information	
Product type designation	IWP900
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	9 in
Display width	198 mm
Display height	111.7 mm
Number of colors	65 536
Resolution (pixels)	
• Horizontal image resolution	800 Pixel
• Vertical image resolution	480 Pixel
Backlighting	
• MTBF backlighting (at 25 °C)	20 000 h
• Backlight dimmable	Yes
Control elements	
Keyboard fonts	
• Function keys	
— Number of function keys	8

• Keys with LED	No
• System keys	No
• Numeric keyboard	Yes; Onscreen keyboard
• alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
• Design as touch screen	Yes
• Design as multi-touch screen	No
• Monitor keyboard	Yes
Installation type/mounting	
Mounting type	Mounting clips
Mounting position	vertical
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
RFID reader can be installed	No
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	230 mA
Starting current inrush I ² t	0.2 A ² ·s
Power	
Active power input, typ.	5.5 W
Processor	
Processor type	ARM
Memory	
Type of memory	DDR3-SDRAM
Flash	Yes
RAM	Yes
Memory available for user data	10 Mbyte
Type of output	
Acoustics	
• Buzzer	Yes
• Speaker	No
Time of day	
Clock	
• Hardware clock (real-time)	Yes

• Software clock	Yes
• retentive	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes

Interfaces

Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of RS 232 interfaces	0
Number of USB interfaces	1; Up to 16 GB
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	0
With software interfaces	No

Industrial Ethernet

• Industrial Ethernet status LED	2
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Protocols

PROFINET	Yes
Supports protocol for PROFINET IO	No
IRT	No
PROFIBUS	No
MPI	No

Protocols (Ethernet)

• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes

WEB characteristics

• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
• JavaScript	Yes

Redundancy mode

Media redundancy	
— MRP	No

EMC

Emission of radio interference acc. to EN 55 011

• Limit class A, for use in industrial areas	Yes
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- Limit class B, for use in residential areas

No

Degree and class of protection

IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
<ul style="list-style-type: none"> • Enclosure Type 4 at the front 	Yes
<ul style="list-style-type: none"> • Enclosure Type 4x at the front 	Yes

Standards, approvals, certificates

CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	No
KC approval	No

Use in hazardous areas

<ul style="list-style-type: none"> • ATEX Zone 2 	No
<ul style="list-style-type: none"> • ATEX Zone 22 	No
<ul style="list-style-type: none"> • IECEx Zone 2 	No
<ul style="list-style-type: none"> • IECEx Zone 22 	No
<ul style="list-style-type: none"> • cULus Class I Zone 1 	No
<ul style="list-style-type: none"> • cULus Class I Zone 2, Division 2 	No
<ul style="list-style-type: none"> • FM Class I Division 2 	No

Marine approval

<ul style="list-style-type: none"> • Germanischer Lloyd (GL) 	No
<ul style="list-style-type: none"> • American Bureau of Shipping (ABS) 	No
<ul style="list-style-type: none"> • Bureau Veritas (BV) 	No
<ul style="list-style-type: none"> • Det Norske Veritas (DNV) 	No
<ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) 	No
<ul style="list-style-type: none"> • Nippon Kaiji Kyokai (Class NK) 	No
<ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) 	No
<ul style="list-style-type: none"> • Chinese Classification Society (CCS) 	No

Ambient conditions

Ambient temperature during operation	
<ul style="list-style-type: none"> • Operation (vertical installation) <ul style="list-style-type: none"> — For vertical installation, min. — For vertical installation, max. 	<p>0 °C</p> <p>50 °C</p>
<ul style="list-style-type: none"> • Operation (max. tilt angle) <ul style="list-style-type: none"> — At maximum tilt angle, min. — At maximum tilt angle, min. 	<p>0 °C</p> <p>40 °C</p>
<ul style="list-style-type: none"> • Operation (vertical installation, portrait format) <ul style="list-style-type: none"> — For vertical installation, min. — For vertical installation, max. 	<p>0 °C</p> <p>40 °C</p>

<ul style="list-style-type: none"> • Operation (max. tilt angle, portrait format) <ul style="list-style-type: none"> — At maximum tilt angle, min. 0 °C — At maximum tilt angle, min. 35 °C 	
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> • min. -20 °C • max. 60 °C 	
Relative humidity	
<ul style="list-style-type: none"> • Operation, max. 90 %; no condensation 	
Operating systems	
proprietary	Yes
pre-installed operating system	
<ul style="list-style-type: none"> • Windows CE 	No
Languages	
Online languages	
<ul style="list-style-type: none"> • Number of online/runtime languages 	2
Peripherals/Options	
Printer	No
SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory card	No
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes
SIMATIC HMI USB stick	Yes
Mechanics/material	
Enclosure material (front)	
<ul style="list-style-type: none"> • Plastic • Aluminum • Stainless steel 	Yes No No
Dimensions	
Width of the housing front	267 mm
Height of housing front	182 mm
Mounting cutout, width	251 mm
Mounting cutout, height	166 mm
Overall depth	40 mm
Weights	
Weight without packaging	1 130 g
Weight incl. packaging	1 393 g
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