

SIMATIC HMI IWP700, Basic Panel, touch operation, 7" widescreen TFT display, 16 million colors, Ethernet interface, HTML5, contains open source software, which is provided free of charge see enclosed DVD

General information	
Product type designation	IWP700 Basic
Display	
Design of display	TFT
Screen diagonal	7 in
Display width	152.4 mm
Display height	91.4 mm
Number of colors	16 777 216
Resolution (pixels)	
• Horizontal image resolution	800 pixel
• Vertical image resolution	480 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	20 000 h; At 25°C
• Backlight dimmable	Yes; 10 ... 100%
Control elements	
Keyboard fonts	
• alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
• Design as touch screen	Yes
• Design as multi-touch screen	Yes
• Monitor keyboard	Yes
Installation type/mounting	
Mounting position	vertical
Mounting in portrait format possible	No
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
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)	0.2 A
current consumption (for rated value of supply voltage), min.	0.16 A
current consumption (for rated value of supply voltage), max.	0.51 A
Current consumption, max.	0.69 A; at 19.2 V
Starting current inrush I <sup>2</sup> t	0.36 A <sup>2</sup> ·s
Power	
Active power input, typ.	8.2 W
Processor	
Processor type	ARM
Memory	
Flash	Yes
RAM	Yes
Type of output	
Acoustics	
• Buzzer	No

• Speaker	No
<b>Time of day</b>	
Clock	
• Hardware clock (real-time)	Yes
• Software clock	Yes
• retentive	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes
<b>Interfaces</b>	
Number of industrial Ethernet interfaces	1; Gigabit Ethernet (IE/PN), RJ45
Number of USB interfaces	2; USB 2.0
Number of SD card slots	0
Industrial Ethernet	
• Industrial Ethernet status LED	2
• Number of ports of the integrated switch	1
<b>Protocols</b>	
PROFINET	No
Supports protocol for PROFINET IO	No
IRT	No
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
• JavaScript	Yes
<b>EMC</b>	
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	Yes
• Limit class B, for use in residential areas	No
<b>Degree and class of protection</b>	
IP (at the front)	IP65
IP (rear)	IP20
<b>Standards, approvals, certificates</b>	
CE mark	Yes
cULus	Yes; in preparation
FM approval	No
RCM (formerly C-TICK)	Yes
KC approval	No
EAC (formerly Gost-R)	No
Ecological footprint	
• environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	162 kg
— global warming potential, (during production) [CO2 eq]	23.7 kg
— global warming potential, (during operation) [CO2 eq]	139 kg
— global warming potential, (after end of life cycle) [CO2 eq]	-1.23 kg
<b>Ambient conditions</b>	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	

<b>Operation (vertical installation)</b>		
— For vertical installation, min.	0 °C	
— For vertical installation, max.	50 °C	
<b>Operation (max. tilt angle)</b>		
— At maximum tilt angle, min.	0 °C	
— At maximum tilt angle, max.	40 °C	
<b>Operation (vertical installation, portrait format)</b>		
— For vertical installation, min.	0 °C	
— For vertical installation, max.	40 °C	
<b>Operation (max. tilt angle, portrait format)</b>		
— At maximum tilt angle, min.	0 °C	
— At maximum tilt angle, max.	35 °C	
<b>Ambient temperature during storage/transportation</b>		
• min.	-20 °C	
• max.	60 °C	
<b>Relative humidity</b>		
• Operation, max.	90 %; no condensation	
<b>Operating systems</b>		
proprietary	Yes	
<b>Software</b>		
Web browser	Yes	
<b>Languages</b>		
<b>Online languages</b>		
• Number of online/runtime languages	2	
<b>Peripherals/Options</b>		
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	
<b>Mechanics/material</b>		
Enclosure material (front)		
• Plastic	Yes	
<b>Dimensions</b>		
Width of the housing front	214 mm	
Height of housing front	158 mm	
Mounting cutout, width	197 mm	
Mounting cutout, height	141 mm	
mounting depth	36 mm	
<b>Weights</b>		
Weight (without packaging)	0.85 kg	
Weight (with packaging)	1.1 kg	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
eClass	14	27-33-02-01
eClass	12	27-33-02-01
eClass	9.1	27-33-02-01
eClass	9	27-33-02-01
eClass	8	27-24-23-02
eClass	7.1	27-24-23-02
eClass	6	27-24-23-02
ETIM	10	EC001412
ETIM	9	EC001412
ETIM	8	EC001412

## Approvals / Certificates

General Product Approval

EMV

[Manufacturer Declaration](#)[China RoHS](#)

last modified:

6/23/2025