

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	
• Function keys	
— Number of function keys	0
— Number of function keys with LEDs	0
• 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	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 _{st}	0.36 A ² ·s
Power	
Active power input, typ.	8.2 W
Processor	
Processor type	ARM

Storage	
Flash	Yes
RAM	Yes
Type of output	
Acoustics	
• Buzzer	No
• 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; Gigabit Ethernet (IE/PN), RJ45
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
Number of other interfaces	0
Number of SD card slots	0
With software interfaces	No
Industrial Ethernet	
• Industrial Ethernet status LED	2
• Number of ports of the integrated switch	1
Protocols	
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
EMC	
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
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
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		
Ambient conditions			
Suited for indoor use	Yes		
Suited for outdoor use	No		
Ambient temperature during operation			
Operation (vertical installation)			
— For vertical installation, min.	0 °C		
— For vertical installation, max.	50 °C		
Operation (max. tilt angle)			
— At maximum tilt angle, min.	0 °C		
— At maximum tilt angle, max.	40 °C		
Operation (vertical installation, portrait format)			
— For vertical installation, min.	0 °C		
— For vertical installation, max.	40 °C		
Operation (max. tilt angle, portrait format)			
— At maximum tilt angle, min.	0 °C		
— At maximum tilt angle, max.	35 °C		
Ambient temperature during storage/transportation			
• min.	-20 °C		
• max.	60 °C		
Relative humidity			
• Operation, max.	90 %; no condensation		
Operating systems			
proprietary	Yes		
Software			
Web browser	Yes		
Languages			
Online languages			
• 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)			
• Plastic	Yes		
Dimensions			
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		
Weights			
Weight (without packaging)	0.85 kg		
Weight (with packaging)	1.1 kg		
Classifications			
		Version	Classification
	eClass	16	27-33-02-01

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
ETIM	7	EC001412

Approvals / Certificates	
General Product Approval	EMV

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



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