## **SIEMENS**

## **Data sheet**



SIMATIC HMI TP1200 Comfort, Comfort Panel, touch operation, 12" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable from WinCC Comfort V11

Product type designation  Display  Design of display  Screen diagonal  Display width  Display height  Number of colors  Resolution (pixels)  TFT  261.1 mm  163.2 mm  16 777 216		
Design of display  Screen diagonal  Display width  Display height  Number of colors  TFT  261.1 in  163.2 mm  16777 216		
Screen diagonal12.1 inDisplay width261.1 mmDisplay height163.2 mmNumber of colors16 777 216		
Display width261.1 mmDisplay height163.2 mmNumber of colors16 777 216		
Display height 163.2 mm Number of colors 16 777 216		
Number of colors 16 777 216		
Posolution (nivele)		
resolution (hiseis)		
Horizontal image resolution     1 280 pixel		
Vertical image resolution     800 pixel		
Backlighting		
MTBF backlighting (at 25 °C)  80 000 h		
Backlight dimmable     Yes; 0-100 %		
Control elements		
Keyboard fonts		
Function keys		
<ul><li>Number of function keys</li><li>0</li></ul>		
— 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; Analog-resistive		
Expansions for operator control of the process		
DP direct LEDs (LEDs as S7 output I/O)		
— F1Fx 0		
Direct keys (keys as S7 input I/O)		
— F1Fx 0		
Direct keys (touch buttons as S7 input I/O)  40		
Installation type/mounting		
Mounting position vertical		
Wall mounting/direct mounting No		
Mounting in portrait format possible Yes		
Mounting in landscape format possible Yes		
maximum permissible angle of inclination without external ventilation 35°		
Supply voltage		

Tune of complex with	DC
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)	0.85 A
Starting current inrush I²t	0.5 A <sup>2</sup> ·s
Power	
Active power input, typ.	20 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	
Buzzer	No
Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
retentive	Yes; Back-up duration typically 6 weeks
<ul><li>synchronizable</li></ul>	Yes
Interfaces	
Number of industrial Ethernet interfaces	1; 2 ports (switch)
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
• USB Mini B	1; 5-pole
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
Industrial Ethernet status LED	2
<ul> <li>Number of ports of the integrated switch</li> </ul>	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes; As of WinCC V12
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
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
<ul> <li>Active X</li> </ul>	Yes
<ul> <li>JavaScript</li> </ul>	Yes
• Java VM	No
Redundancy mode	
Media redundancy	
— MRP	Yes; As of WinCC V12
Further protocols	
• CAN	No
MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes; S7 controller
EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class A, for use in industrial areas     Limit class B, for use in residential areas	No
	IVU
Degree and class of protection	IDOS
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
<ul> <li>Enclosure Type 4 at the front</li> </ul>	Yes
Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
KC approval Use in hazardous areas	Yes
• •	Yes Yes
Use in hazardous areas	
Use in hazardous areas  • ATEX Zone 2	Yes
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22	Yes Yes
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2	Yes Yes Yes
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2  • IECEx Zone 22	Yes Yes Yes
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2  • IECEx Zone 22  • cULus Class I Zone 1	Yes Yes Yes Yes No
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2  • IECEx Zone 22  • cULus Class I Zone 1  • cULus Class I Zone 2, Division 2	Yes Yes Yes Yes Yes Yes Yes
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2  • IECEx Zone 22  • cULus Class I Zone 1  • cULus Class I Zone 2, Division 2  • FM Class I Division 2	Yes Yes Yes Yes Yes Yes Yes
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2  • IECEx Zone 22  • cULus Class I Zone 1  • cULus Class I Zone 2, Division 2  • FM Class I Division 2  Marine approval	Yes Yes Yes Yes Yes No Yes Yes
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2  • IECEx Zone 22  • cULus Class I Zone 1  • cULus Class I Zone 2, Division 2  • FM Class I Division 2  Marine approval  • Germanischer Lloyd (GL)	Yes Yes Yes Yes Yes No Yes Yes Yes
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2  • IECEx Zone 22  • cULus Class I Zone 1  • cULus Class I Zone 2, Division 2  • FM Class I Division 2  Marine approval  • Germanischer Lloyd (GL)  • American Bureau of Shipping (ABS)	Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes; As of product version: 10 Yes; As of product version: 10
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2  • IECEx Zone 22  • cULus Class I Zone 1  • cULus Class I Zone 2, Division 2  • FM Class I Division 2  Marine approval  • Germanischer Lloyd (GL)  • American Bureau of Shipping (ABS)  • Bureau Veritas (BV)  • Det Norske Veritas (DNV)	Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes: As of product version: 10 Yes; As of product version: 10
Use in hazardous areas  • ATEX Zone 2  • ATEX Zone 22  • IECEx Zone 2  • IECEx Zone 22  • cULus Class I Zone 1  • cULus Class I Zone 2, Division 2  • FM Class I Division 2  Marine approval  • Germanischer Lloyd (GL)  • American Bureau of Shipping (ABS)  • Bureau Veritas (BV)	Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes: As of product version: 10 Yes; As of product version: 10 Yes; As of product version: 10
Use in hazardous areas  ATEX Zone 2  ATEX Zone 22  IECEx Zone 22  IECEx Zone 22  CULus Class I Zone 1  CULus Class I Zone 2, Division 2  FM Class I Division 2  Marine approval  Germanischer Lloyd (GL)  American Bureau of Shipping (ABS)  Bureau Veritas (BV)  Det Norske Veritas (DNV)  Lloyds Register of Shipping (LRS)  Nippon Kaiji Kyokai (Class NK)	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes; As of product version: 10
Use in hazardous areas  ATEX Zone 2  ATEX Zone 22  IECEx Zone 22  IECEx Zone 22  CULus Class I Zone 1  CULus Class I Zone 2, Division 2  FM Class I Division 2  Marine approval  Germanischer Lloyd (GL)  American Bureau of Shipping (ABS)  Bureau Veritas (BV)  Det Norske Veritas (DNV)  Lloyds Register of Shipping (LRS)  Nippon Kaiji Kyokai (Class NK)  Polski Rejestr Statkow (PRS)	Yes Yes Yes Yes No Yes Yes Yes  Yes; As of product version: 10
Use in hazardous areas  ATEX Zone 2  ATEX Zone 22  IECEx Zone 2  IECEx Zone 22  CULus Class I Zone 1  CULus Class I Zone 2, Division 2  FM Class I Division 2  Marine approval  Germanischer Lloyd (GL)  American Bureau of Shipping (ABS)  Bureau Veritas (BV)  Det Norske Veritas (DNV)  Lloyds Register of Shipping (LRS)  Nippon Kaiji Kyokai (Class NK)  Polski Rejestr Statkow (PRS)	Yes Yes Yes Yes No Yes Yes Yes  Yes; As of product version: 10
Use in hazardous areas  ATEX Zone 2  ATEX Zone 22  IECEx Zone 22  IECEx Zone 22  CULus Class I Zone 1  CULus Class I Zone 2, Division 2  FM Class I Division 2  Marine approval  Germanischer Lloyd (GL)  American Bureau of Shipping (ABS)  Bureau Veritas (BV)  Det Norske Veritas (DNV)  Lloyds Register of Shipping (LRS)  Nippon Kaiji Kyokai (Class NK)  Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation	Yes Yes Yes Yes No Yes Yes Yes  Yes; As of product version: 10
Use in hazardous areas  ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2  Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation Operation (vertical installation)	Yes Yes Yes No Yes Yes Yes  Yes; As of product version: 10 No
Use in hazardous areas  ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2  Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation Operation (vertical installation) For vertical installation, min.	Yes Yes Yes Yes No Yes Yes Yes  Yes; As of product version: 10 No
Use in hazardous areas  ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2  Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation Operation (vertical installation, min. For vertical installation, max.	Yes Yes Yes No Yes Yes Yes  Yes; As of product version: 10 No
Use in hazardous areas  ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2  Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle)	Yes Yes Yes Yes No Yes Yes Yes  Yes; As of product version: 10 No  0 °C 50 °C; (55 °C, see entry ID: 64847814)
Use in hazardous areas  ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 FM Class I Division 2  Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS)  Ambient conditions  Ambient temperature during operation Operation (vertical installation) For vertical installation, min. For vertical installation, max. Operation (max. tilt angle) At maximum tilt angle, min.	Yes Yes Yes No Yes Yes Yes  Yes  Yes; As of product version: 10 No  0 °C 50 °C; (55 °C, see entry ID: 64847814)
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At maximum tilt angle may	35 °C
— At maximum tilt angle, max.	30 0
Ambient temperature during storage/transportation	-20 °C
	-20 °C 60 °C
Relative humidity	
Operation, max.	90 %; no condensation
Operating systems	55 70, 110 OUTIGOTION
proprietary	No
pre-installed operating system	NO
Windows CE	Yes
configuration / header	100
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
STEP 7 Basic (TIA Portal)	No
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
WinCC flexible Compact	No
<ul> <li>WinCC flexible Standard</li> </ul>	No
<ul> <li>WinCC flexible Advanced</li> </ul>	No
<ul> <li>WinCC Basic (TIA Portal)</li> </ul>	No
<ul> <li>WinCC Comfort (TIA Portal)</li> </ul>	Yes; from V11
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	Yes; from V11
WinCC Professional (TIA Portal)	Yes; from V11
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	V
Web browser  Parket Word	Yes
Pocket Word	Yes
Pocket Excel     PDE Viewer	Yes
PDF Viewer     Modia Player	Yes
Media Player     SIMATIC WinCC Sm@rtServer	Yes
<ul><li>SIMATIC WinCC Sm@rtServer</li><li>SIMATIC WinCC Audit</li></ul>	Yes Yes
Number of Visual Basic Scripts	Yes
Task planner	100
• time-controlled	Yes
task-controlled	Yes
Message system	
Number of alarm classes	32
Bit messages	Yes
Number of bit messages	4 000
Analog messages	Yes
<ul> <li>Number of analog messages</li> </ul>	200
S7 alarm number procedure	Yes
<ul> <li>System messages HMI</li> </ul>	Yes
<ul> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> </ul>	Yes
<ul> <li>Number of characters per message</li> </ul>	80
<ul> <li>Number of process values per message</li> </ul>	8
<ul> <li>Acknowledgment groups</li> </ul>	Yes
Message indicator	Yes
Recipe management	

Number of recipes	300
Data records per recipe	500
Entries per data record	1 000
Size of internal recipe memory	2 Mbyte
Recipe memory expandable	Yes
Variables	1.00
Number of variables per device	2 048
Number of variables per screen	400
Limit values	Yes
<ul> <li>Multiplexing</li> </ul>	Yes
<ul> <li>Structures</li> </ul>	Yes
Arrays	Yes
Images	
<ul> <li>Number of configurable images</li> </ul>	500
<ul> <li>Permanent window/default</li> </ul>	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	400
Number of objects per image  Total fields	400
• Text fields	Yes
I/O fields     Craphic I/O fields (graphics list)	Yes Yes
<ul><li> Graphic I/O fields (graphics list)</li><li> Symbolic I/O fields (text list)</li></ul>	Yes
Date/time fields	Yes
Switches	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
Number of complex objects per screen	20
Alarm view	Yes
Trend view	Yes
<ul><li>User view</li></ul>	Yes
Status/control	Yes
<ul> <li>Sm@rtClient view</li> </ul>	Yes
<ul> <li>Recipe view</li> </ul>	Yes
<ul><li>f(x) trend view</li></ul>	Yes
<ul> <li>System diagnostics view</li> </ul>	Yes
Media Player	Yes
HTML browser	Yes
PDF display	Yes
IP camera display	Yes
Bar graphs	Yes
• Sliders	Yes
Pointer instruments     Angle of digital place.	Yes
Analog/digital clock     Liete	Yes
Lists  • Number of taxt lists per project	500
<ul><li>Number of text lists per project</li><li>Number of entries per text list</li></ul>	500
Number of entries per text list     Number of graphics lists per project	500
Number of graphics lists per project     Number of entries per graphics list	500
Archiving	500
Archiving  Number of archives per device	
Number of archives per device	50
<ul><li>Number of archives per device</li><li>Number of entries per archive</li></ul>	
Number of archives per device	50 20 000

<ul> <li>Archiving methods</li> </ul>	
<ul> <li>Sequential archive</li> </ul>	Yes
<ul><li>— Short-term archive</li></ul>	Yes
<ul> <li>Memory location</li> </ul>	
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
— CSV	Yes
— TXT	Yes
— RDB	Yes
Security	
Number of user groups	50
Number of user rights	32
Number of users	50
Password export/import	Yes
SIMATIC Logon	Yes
Logging through printer	V
• Alarms	Yes
Report (shift log)	Yes
<ul><li>Hardcopy</li></ul>	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	
<ul> <li>Keyboard fonts</li> </ul>	
— US English	Yes
Transfer (upload/download)	
<ul> <li>MPI/PROFIBUS DP</li> </ul>	Yes
• USB	Yes
Ethernet	Yes
<ul> <li>using external storage medium</li> </ul>	Yes
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes
• SINUMERIK	Yes; with SINUMERIK option package
• SIMOTION	Yes
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (DF1)	Yes
Mitsubishi (MC TCP/IP)     Mitsubishi (FY)	Yes
Mitsubishi (FX)     OMPON (FING TOP)	Yes
OMRON (FINS TCP)  OMBON (FINS TCP)	No
OMRON (LINK/Multilink)	Yes
<ul> <li>Modicon (Modbus TCP/IP)</li> </ul>	Yes
<ul><li>Modicon (Modbus)</li></ul>	Yes
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
<ul> <li>Backup/Restore manually</li> </ul>	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	Yes
Simulation	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB
SIMATIC HIM HIM HIE HOLY Card. Multi Media Card  SIMATIC HIM SD memory card: Secure Digital memory	Yes; Up to 2 GB
card	1 63, Ομ 10 2 Ου
SIMATIC HMI CF memory card Compact Flash Card	No
Similar in the momenty out a compact hash out	.,,

USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes; Up to 16 GB
SIMATIC HMI USB stick	Yes; Up to 8 GB
Network camera	Yes
Mechanics/material	
Enclosure material (front)	
<ul> <li>Plastic</li> </ul>	No
<ul> <li>Aluminum</li> </ul>	Yes
Stainless steel	No
Dimensions	
Width of the housing front	330 mm
Height of housing front	241 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	65 mm
Weights	
Weight (without packaging)	2.8 kg
Weight (with packaging)	3.5 kg

last modified: