SIEMENS

Data sheet



SIMATIC HMI TP1200 Comfort INOX Stainless steel front, Glass pane, capacitive touch, Degree of protection front IP69K, 12" widescreen TFT display, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, (Microsoft Support included Security updates discontinued) configurable from WinCC Comfort V15

General information	
Product type designation	TP1200 Comfort INOX PCT
Display	
Design of display	TFT
Screen diagonal	12.1 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	16 777 216
Resolution (pixels)	
 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 	
 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 	No
Monitor keyboard	Yes
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
Mounting in portrait format possible	Yes
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
	19.2 V
permissible range, lower limit (DC) permissible range, upper limit (DC)	28.8 V
	20.0 V
Input current	0.05.4
Current consumption (rated value)	0.85 A
Starting current inrush I²t	0.5 A ² ·s
Power	
Active power input, typ.	20 W
Processor	<u></u>
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	Speaker
Buzzer	No
• Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
retentive	Yes; Back-up duration typically 6 weeks
	Yes
synchronizable	Tes
Interfaces	
	4.0 4.4 (11)
Number of industrial Ethernet interfaces	1; 2 ports (switch)
Number of industrial Ethernet interfaces Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined 0; together with RS 485
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	1; RS 422 / 485 combined 0; together with RS 485 0
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY)	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2
Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0
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Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2 No
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• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
Active X	Yes
 JavaScript 	Yes
Java VM	No
Redundancy mode	
Media redundancy	V A5/W00 V45
— MRP	Yes; As of WinCC V15
Further protocols	No
CAN MODBUS	No Yes
	i es
EMC	
Emission of radio interference acc. to EN 55 011	Vac
 Limit class A, for use in industrial areas Limit class B, for use in residential areas 	Yes
	No
Degree and class of protection	IDOO (ID OK _ LIDOO (ID OK
IP (at the front)	IP66 / IPx6K and IP69 / IPx9K
IP (rear)	IP20
NEMA (front)	NEMA 4, NEMA 12 (when installed)
Enclosure Type 4 at the front The leaves Type 4 at the front	No
Enclosure Type 4x at the front Findantic Type 12 at the front	Yes
Enclosure Type 12 at the front	Yes
Standards, approvals, certificates	V
CE mark	Yes
CULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	No Voc
EAC (formerly Gost-R) Use in hazardous areas	Yes
ATEX Zone 2	Yes
• ATEX Zone 22	Yes
• IECEx Zone 2	Yes
• IECEX Zone 22	Yes
• cULus Class I Zone 1	No
• cULus Class I Zone 2, Division 2	Yes
• cULus Class II Division 2	No
• FM Class I Division 2	No
• FM Class II Division 2	No
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

Altitude during operation relating to sea level	
Installation altitude above sea level, max.	2 000 m
Relative humidity	
Operation, max.	90 %; no condensation
perating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
onfiguration / header	
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
 STEP 7 Professional (TIA Portal) 	No
 WinCC flexible Compact 	No
WinCC flexible Standard	No
 WinCC flexible Advanced 	No
 WinCC Basic (TIA Portal) 	No
 WinCC Comfort (TIA Portal) 	Yes; As of WinCC V15
 WinCC Advanced (TIA Portal) 	Yes; As of WinCC V15
 WinCC Professional (TIA Portal) 	Yes; As of WinCC V15
anguages	
Online languages	
Number of online/runtime languages	32
Project languages	
Languages per project	32
unctionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	Internet Explorer, PDF/Word/Excel Viewer, Sm@rtService,
	Sm@rtAccess, ProAgent
 Web browser 	Yes
 Pocket Word 	Yes; Viewer
Pocket Excel	Yes; Viewer
PDF Viewer	Yes
Media Player	Yes
 SIMATIC WinCC Sm@rtServer 	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	Yes
• time-controlled	Yes
• task-controlled	Yes
Message system	
Number of alarm classes	32
Bit messages	
— Number of bit messages	4 000
Analog messages	
 Number of analog messages 	200
S7 alarm number procedure	Yes
System messages HMI	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	Yes
 Number of characters per message 	80
	8
 Number of process values per message 	
Number of process values per messageAcknowledgment groups	Yes
Acknowledgment groups	Yes

a Data records per recipe	500
Data records per recipe Tatrice per data record	
Entries per data record Sing of integral region manager	1 000
Size of internal recipe memoryRecipe memory expandable	2 Mbyte Yes
Variables	res
Number of variables per device	2 048
Number of variables per across Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	
Number of configurable images	500
 Permanent window/default 	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	
 Number of objects per image 	400
Text fields	Yes
• I/O fields	Yes
 Graphic I/O fields (graphics list) 	Yes
 Symbolic I/O fields (text list) 	Yes
Date/time fields	Yes
 Switches 	Yes
• Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects Complex image chiests	Yes
Complex image objects • Number of complex objects per screen	20
Alarm view	Yes
Trend view	Yes
• User view	Yes
Status/control	Yes
Sm@rtClient view	Yes
Recipe view	Yes
• f(x) trend view	Yes
System diagnostics view	Yes
Media Player	Yes
HTML browser	Yes
PDF display	Yes
IP camera display	Yes
Bar graphs	Yes
 Sliders 	Yes
 Pointer instruments 	Yes
Analog/digital clock	Yes
Lists	
Number of text lists per project	500
Number of entries per text list	500
Number of graphics lists per project	500
Number of entries per graphics list	500
Archiving	50
Number of archives per device	50
Number of entries per archive Magazaga graphica	20 000
Message archiveProcess value archive	Yes Yes
	Yes Sequential log, circular log, alarm log, process value archive
 Archiving methods 	dequential log, circular log, alarm log, process value archive

 Sequential archive 	Yes
 Short-term archive 	Yes
 Memory location 	SD/MMC card, Ethernet, USB memory stick
 Memory card 	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	CSV file, readable, e.g. with MS Excel, MS Access
— 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	163
Alarms	Yes
	Yes
Report (shift log) Hardeony	Yes
Hardcopy	
Electronic print to file	Yes; PDF, HTML
Character sets	
Keyboard fonts	US American (English)
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
• Ethernet	Yes
using external storage medium	Yes
Process coupling	
• S7-1200	Yes
• S7-1200 • S7-1500	Yes Yes
• S7-1500	Yes
• S7-1500 • S7-200	Yes Yes
S7-1500S7-200S7-300/400	Yes Yes Yes
S7-1500S7-200S7-300/400LOGO!	Yes Yes Yes Yes
 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC 	Yes Yes Yes Yes Yes Yes
 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK 	Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package
 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) 	Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes
 S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) 	Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes
 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) 	Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes
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 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 	Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 	Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore automatically Simulation Device switchover Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card 	Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
S7-1500 S7-200 S7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory	Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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SIMATIC IPC USB Flashdrive (USB stick)	Yes; Up to 16 GB
SIMATIC HMI USB stick	Yes; Up to 8 GB
Network camera	Yes
Accessories	
Further accessories are available	Yes; Service Pack (seal, mounting clips, clamping frame, power supply connector)
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	No
Stainless steel	Yes
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)	4.2 kg
Weight (with packaging)	4.9 kg

last modified: 10/7/2021 🖸