SIEMENS

Data sheet

6AV2144-8MC10-0AA0



SIMATIC HMI TP1200 Comfort INOX Stainless steel front, Con- tinuous decorative film, Degree of protection front IP66K, 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 V11

General information		
Product type designation	TP1200 Comfort INOX	
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; capacitive	
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	

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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 I ² t	0.5 A²·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
synchronizable	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
 Number of ports of the integrated switch 	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)	N
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	N
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes

Active X	Yes
JavaScript	Yes
• Java VM	No
Redundancy mode	
Media redundancy	
— MRP	Yes; As of WinCC V12
Further protocols	
• CAN	No
MODBUS	Yes
EMC	
Emission of radio interference acc. to EN 55 011	Ver
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)	IP66K
IP (rear)	IP20
NEMA (front)	Ma
Enclosure Type 4 at the front Enclosure Type 4x at the front	No Vectional vector and v
Enclosure Type 4x at the front Standards, approvals, certificates	Yes; indoor use only
CE mark	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
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
FM Class I Division 2	Yes
Marine approval	
Germanischer Lloyd (GL)	No
American Bureau of Shipping (ABS)	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
Korean Register of Shipping (KRS)	No
Lloyds Register of Shipping (LRS)	No
 Nippon Kaiji Kyokai (Class NK) 	No
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
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.	80 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
configuration / 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; from V11
WinCC Advanced (TIA Portal)	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	
Web browser	Yes
Pocket Word	Yes
Pocket Excel	Yes
PDF Viewer	Yes
Media Player	Yes
 SIMATIC WinCC Sm@rtServer 	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• 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
Number of process values per message	8
Acknowledgment groups	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	0.040
Number of variables per device	2 048
 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	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	
Number of archives per device	50
Number of entries per archive	20 000
Message archive	Yes
Process value archive	Yes
Archiving methods	
- Sequential archive	Yes
— Short-term archive	Yes
Memory location	
— Memory card	Yes
— USB memory	Yes
- COD monory	

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• SIMOTIONYes• Alen Bradley (EtherNet/IP)Yes• Alen Bradley (DF1)Yes• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (TC)Yes• Mitsubishi (FX)Yes• OMRON (FINS TCP)No• OMRON (INK/Mutilink)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus TCP/IP)Yes• OPC UA ClientYes• OPC UA ClientYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Device switchoverYesPeripherals/OptionsYesPrintherYesSIMATIC HMI Mmemory card: Mutil Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI SD stickYes; Up to 16 GBSIMATIC I-MI USB stickYes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 18 GBNetheraleralYesVersing us metarial (front)Yes• PlasticNo	WinAC	Yes
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Allen Bradley (DF1)YesMitsubishi (MC TCP/IP)YesMitsubishi (MC TCP/IP)YesMitsubishi (MC TCP/IP)YesOMRON (FINS TCP)NoOMRON (LINK/MUltilink)YesModicon (Modbus TCP/IP)YesModicon (Modbus)YesOPC UA ClientYesOPC UA ServerYesOPC UA ServerYesBackup/Restore manuallyYesBackup/Restore automaticallyYesBackup/Restore automaticallyYesSimulationYesDevice switchoverYesPrinterYesSiMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI MM memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI SD memory card: Geure Digital memory cardYes; Up to 16 GBSIMATIC I-MU USB stickYes; Up to 16 GBSIMATIC I-MU USB stickYes; Up to 8 GBNetwork cameraYes; Up to 8 GBNetwork cameraYes; Up to 8 GBNetwork cameraPrinter• PlasticNo	SIMOTION	Yes
• Mitsubishi (MC TCP/IP)Yes• Mitsubishi (FX)Yes• OMRON (FNS TCP)No• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ClientYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYesPrinterYesSIMATIC HMI MD memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card Compact Flash CardNoUSB memoryYes; Up to 16 GBSIMATIC HMI SD textexYes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYes; Up to 8 GBMetorik cameraYes• PlasticNo	 Allen Bradley (EtherNet/IP) 	Yes
• Mitsubishi (FX)Yes• OMRON (FINS TCP)No• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ServerYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYes• PrinterYes• SilMATIC HMI Mmemory card: Multi Media CardYesSilMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 128 MBSilMATIC HMI SD memory card Compact Flash CardNoUSB memoryYes; Up to 16 GBSilMATIC HMI USB stickYes; Up to 16 GBSilMATIC IC HUI USB stick)Yes; Up to 16 GBSilMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/material (front)Fendosure material (front)• PlasticNo	 Allen Bradley (DF1) 	Yes
• OMRON (FINS TCP)No• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)Yes• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ServerYes• OPC UA ServerYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYes• Device switchoverYes• DifferYesSilMATIC HMI Mmemory card: Multi Media CardYes; Up to 128 MBSilMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSilMATIC HMI CF memory card Compact Flash CardNoUBB memoryYes; Up to 16 GBSilMATIC HMI USB stickYes; Up to 16 GBSilMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYes• PlasticNo	Mitsubishi (MC TCP/IP)	Yes
• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ClientYes• OPC UA ServerYesService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYesPrinterYesSIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card Compact Flash CardNoUSB memoryYes; Up to 16 GBSIMATIC HMI USB stick)Yes; Up to 8 GBNetwork cameraYesMechanics/materialYesEnclosure material (front) • PlasticNo	 Mitsubishi (FX) 	Yes
• Modicon (Modbus TCP/IP)Yes• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ServerYes• OPC UA ServerYes• Backup/Restore annuallyYes• Backup/Restore annuallyYes• Backup/Restore annuallyYes• Backup/Restore annuallyYes• Backup/Restore annuallyYes• Device switchoverYesPrinterYesSIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 12 GBSIMATIC IPC USS Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/materialYesEnclosure material (front) • PlasticNo	OMRON (FINS TCP)	No
• Modicon (Modbus)Yes• OPC UA ClientYes• OPC UA ServerYesService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• Device switchoverYes• Device switchoverYesPrinterYes (Up to 128 MBSIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card: Compact Flash CardNoUSB memoryYes; Up to 16 GBSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/materialKesEnclosure material (front) • PlasticNo	OMRON (LINK/Multilink)	Yes
OPC UA ClientYes• OPC UA ServerYesService tools/configuration aids	Modicon (Modbus TCP/IP)	Yes
• OPC UA ServerYesService tools/configuration aids• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• Backup/Restore automaticallyYes• SimulationYes• Device switchoverYesPeripherals/OptionsYesPrinterYes; Up to 128 MBSIMATIC HMI MM memory card: Multi Media CardYes; Up to 2 GBSIMATIC HMI SD memory card: Compact Flash CardNoUSB memoryYes; Up to 16 GBSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/materialYesEnclosure material (front) • PlasticNo	Modicon (Modbus)	Yes
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• Backup/Restore manuallyYes• Backup/Restore automaticallyYes• SimulationYes• Device switchoverYesPeripherals/OptionsYesPrinterYes; Up to 128 MBSIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card Compact Flash CardNoUSB memoryYesSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/materialYesEnclosure material (front) • PlasticNo	OPC UA Server	Yes
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• Device switchoverYesPeripherals/OptionsYesPrinterYes; Up to 128 MBSIMATIC HMI MM memory card: Multi Media CardYes; Up to 128 MBSIMATIC HMI SD memory card: Secure Digital memory cardYes; Up to 2 GBSIMATIC HMI CF memory card Compact Flash CardNoUSB memoryYesSIMATIC IPC USB Flashdrive (USB stick)Yes; Up to 16 GBSIMATIC HMI USB stickYes; Up to 8 GBNetwork cameraYesMechanics/materialKesEnclosure material (front) • PlasticNo	 Backup/Restore automatically 	Yes
Peripherals/Options Printer Yes SIMATIC HMI MM memory card: Multi Media Card Yes; Up to 128 MB SIMATIC HMI SD memory card: Secure Digital memory card Yes; Up to 2 GB SIMATIC HMI CF memory card Compact Flash Card No 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 No	Simulation	Yes
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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 Yes Enclosure material (front) No	SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB
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) • Plastic No	SIMATIC HMI CF memory card Compact Flash Card	No
SIMATIC HMI USB stick Yes; Up to 8 GB Network camera Yes Mechanics/material Tenclosure material (front) • Plastic No	USB memory	Yes
Network camera Yes Mechanics/material Yes Enclosure material (front) No • Plastic No	SIMATIC IPC USB Flashdrive (USB stick)	Yes; Up to 16 GB
Mechanics/material Enclosure material (front) • Plastic No	SIMATIC HMI USB stick	Yes; Up to 8 GB
Enclosure material (front) • Plastic No	Network camera	Yes
Plastic No	Mechanics/material	
	Enclosure material (front)	
Aluminum No	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	67 mm
Weights	
Weight (without packaging)	3.6 kg
Weight (with packaging)	4.2 kg

last modified:

9/7/2023 🖸