6AV2124-0MC01-0AX0

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 (Microsoft Support included Security updates discontinued) configurable from WinCC Comfort V11

General information	
Product type designation	TP1200 Comfort
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
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	
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	20.0 V
	0.05 A
Current consumption (rated value)	0.85 A
Starting current inrush I²t	0.5 A ² ·s
Power	
Active power input, typ.	20 W
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 (quitab)
Number of Industrial Ethernet Interfaces Number of RS 485 interfaces	1; 2 ports (switch) 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 Alcordon of 20 as A interference (TTX)	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
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
 Active X 	Yes
 JavaScript 	Yes
• Java VM	No
Redundancy mode	
Media redundancy	
— MRP	Yes; As of WinCC V12
Further protocols	
• CAN	No
EtherNet/IP	Yes
• MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes; S7 controller
EMC	res, or controller
Emission of radio interference acc. to EN 55 011	Voc
Limit class A, for use in industrial areas Limit class B, for use in residential areas	Yes
Limit class B, for use in residential areas	No
Degree and class of protection	
NEMA (front)	
 Enclosure Type 4 at the front 	Yes
Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
	Voc
KC approval	Yes
KC approval Use in hazardous areas	Tes
	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 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 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 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
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 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 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) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS)	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes; As of product version: 10
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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 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 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 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.	Yes Yes Yes No Yes Yes Yes Yes; As of product version: 10 No
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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) 0 °C
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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. At maximum tilt angle, min. For vertical installation, portrait format) For vertical installation, min.	Yes Yes Yes No Yes Yes Yes Yes; As of product version: 10 No 0 °C 50 °C; (55 °C, see entry ID: 64847814) 0 °C 40 °C
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— At maximum tilt angle, min.	35 °C
Ambient temperature during storage/transportation	33 C
min.	-20 °C
• max.	60 °C
Relative humidity	
Operation, max.	90 %; no condensation
-	90 %, no condensation
Operating systems	Al.
proprietary	No
pre-installed operating system • Windows CE	Yes
	Tes
Configuration	V
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	No
STEP 7 Basic (TIA Portal) STEP 7 Brefessional (TIA Bortal)	No No
STEP 7 Professional (TIA Portal) WinCG flevible Compact	No No
WinCC flexible Compact WinCC flexible Standard	No No
WinCC flexible Standard WinCC flexible Advanced	No No
WinCC flexible Advanced WinCO Region (TIA Region)	No
WinCC Basic (TIA Portal) Wince Co. Co. (TIA Portal)	No
WinCC Comfort (TIA Portal) (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 Yes
Number of Visual Basic Scripts Task planner	Yes
Number of Visual Basic Scripts Task planner • time-controlled	Yes
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled	Yes
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system	Yes Yes Yes
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text	Yes
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text Message system	Yes Yes Yes You
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text Message system • Number of alarm classes	Yes Yes Yes Yes 32
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text Message system • Number of alarm classes • Bit messages	Yes Yes Yes 70 32 Yes
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text Message system • Number of alarm classes • Bit messages — Number of bit messages	Yes Yes Yes Yes 70 32 Yes 4 000
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages	Yes Yes Yes Yes 70 32 Yes 4 000 Yes
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages — Number of analog messages	Yes Yes Yes Yes 70 32 Yes 4 000 Yes 200
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages — Number of analog messages • S7 alarm number procedure	Yes Yes Yes 70 32 Yes 4 000 Yes 200 Yes
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages — Number of analog messages • S7 alarm number procedure • System messages HMI	Yes Yes Yes 70 32 Yes 4 000 Yes 200 Yes Yes
Number of Visual Basic Scripts Task planner • time-controlled • task-controlled Help system • Number of characters per info text Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages — Number of analog messages • S7 alarm number procedure	Yes Yes Yes 70 32 Yes 4 000 Yes 200 Yes

 Number of process values per message 	8
 Acknowledgment groups 	Yes
 Message indicator 	Yes
Message buffer	
— Number of entries	1 024
 Circulating buffer 	Yes
— retentive	Yes
— maintenance-free	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	
Number of variables per device	2 048
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	100
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 selection by PLC Image number in the PLC	Yes
Image objects	165
	400
Number of objects per imageText 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
System diagnostics viewMedia Player	Yes
-	
Media Player	Yes
Media PlayerHTML browser	Yes Yes
Media PlayerHTML browserPDF display	Yes Yes Yes
Media PlayerHTML browserPDF displayIP camera display	Yes Yes Yes Yes
 Media Player HTML browser PDF display IP camera display Bar graphs 	Yes Yes Yes Yes Yes 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
— 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	
• Alarms	Yes
Report (shift log)	Yes
Hardcopy	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	
 Keyboard fonts 	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
• Ethernet	Yes
using external storage medium	Yes
Process coupling	
• S7-1200	Yes
• S7-1500	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)	Yes
Mitsubishi (FX)	Yes
OMRON (FINS TCP)	No
 OMRON (LINK/Multilink) 	Yes
Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	Yes

OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
 Backup/Restore manually 	Yes
 Backup/Restore automatically 	Yes
 Simulation 	Yes
 Device switchover 	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
SIMATIC HMI USB stick	Yes
Network camera	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	No
 Aluminum 	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 incl. packaging	3.5 kg

1/16/2021

last modified: