SIEMENS

Data sheet

6AG1124-0MC01-4AX0

SIPLUS HMI TP1200 Comfort based on 6AV2124-0MC01-0AX0 with conformal coating, 0...+50 $^\circ C,$



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; 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	

Tupo of gupply voltage	DC
Type of supply voltage	24 V
Rated value (DC)	
permissible range, lower limit (DC)	19.2 V 28.8 V
permissible range, upper limit (DC)	20.0 V
Input current	
Current consumption (rated value)	0.85 A
Starting current inrush I ² t	0.5 A ² ·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	No
retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Interfaces	
Number of industrial Ethernet interfaces	2
Number of industrial Ethernet interfaces	2 1: PS 422 / 485 combined
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined 1
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	1; RS 422 / 485 combined 1 0
Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces	1; RS 422 / 485 combined 1 0 2; USB 2.0
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 1 0 2; USB 2.0 1; 5-pole
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 1 0 2; USB 2.0 1; 5-pole 0
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 1 0 2; USB 2.0 1; 5-pole 0 0
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 1 0 2; USB 2.0 1; 5-pole 0 0 0
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 1 0 2; USB 2.0 1; 5-pole 0 0 0 2
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 SD card slots With software interfaces	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0
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	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
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 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 2
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 • Number of ports of the integrated switch	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
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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 • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 2 2 2 Yes Yes Yes; As of WinCC V12
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 • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS	1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 2 No 2 Yes Yes; As of WinCC V12 Yes
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• HTML	Yes
• XML	No
• CSS	Yes
Active X	No
 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	
 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
NEMA (front)	
Enclosure Type 4 at the front	Yes
• Enclosure Type 4x at the front	Yes
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; = Tmin
— For vertical installation, max.	50 °C; = Tmax
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C; = Tmin
— At maximum tilt angle, max.	40 °C; = Tmax
Operation (vertical installation, portrait format)	
— For vertical installation, min.	0 °C; = Tmin
 For vertical installation, max. 	40 °C; = Tmax
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	0 °C; = Tmin
— At maximum tilt angle, max.	35 °C; = Tmax
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
With condensation, tested in accordance with IEC	100 %; RH incl. condensation/frost (no commissioning under
60068-2-38, max.	condensation conditions)
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants 	Yes; Incl. diesel and oil droplets in the air
and lubricants	
Use in stationary industrial systems	
 — to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 — to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	

 — to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
 — to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 — to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
— Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life
Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
configuration / header	
	Ver
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
	V2
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
Help system	
Number of characters per info text	70
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
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	
 Number of configurable images 	500
 Permanent window/default 	Yes
Global image	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	20
Number of complex objects per screen	20
Alarm view	Yes
Trend view	Yes
User view	Yes
 Status/control 	Yes

- Ore Ort Client view	Ver
Sm@rtClient view	Yes
Recipe view	Yes
• f(x) trend view	Yes
System diagnostics view	Yes
Media Player	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
— Ethernet	Yes
 Data storage format 	
- CSV	Yes
— TXT	Yes
— RDB	Yes
Convertity	
Security	
Number of user groups	50
	50 32
Number of user groups	
Number of user groupsNumber of user rights	32
Number of user groupsNumber of user rightsNumber of users	32 50
 Number of user groups Number of user rights Number of users Password export/import 	32 50 Yes
 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon 	32 50 Yes
Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer	32 50 Yes Yes
Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms	32 50 Yes Yes
 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file 	32 50 Yes Yes Yes
 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets 	32 50 Yes Yes Yes Yes
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 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets Keyboard fonts — US English 	32 50 Yes Yes Yes Yes
 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets Keyboard fonts 	32 50 Yes Yes Yes Yes Yes; PDF, HTML
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 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets Keyboard fonts US English Transfer (upload/download) 	32 50 Yes Yes Yes Yes Yes; PDF, HTML
 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP 	32 50 Yes Yes Yes Yes Yes; PDF, HTML Yes
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 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet using external storage medium 	32 50 Yes Yes Yes Yes Yes; PDF, HTML Yes Yes Yes
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 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 	32 50 Yes Yes Yes Yes Yes; PDF, HTML Yes Yes Yes Yes Yes Yes Yes Yes
 Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 	32 50 Yes Yes Yes Yes Yes; PDF, HTML Yes Yes Yes No
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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
SIMATIC HMI SD memory card: Secure Digital memory	Yes
card	
USB memory	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 (with packaging)	3.5 kg

last modified:

10/7/2021 🖸