SIEMENS

Data sheet

6AG1124-0XC02-4AX1

SIPLUS HMI TP2200 Comfort based on 6AV2124-0XC02-0AX1 with conformal coating, 0...+45 °C, Comfort Panel, touch operation, 22" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable as of WinCC Comfort V14 SP1 with HSP



Figure similar

General information	
Product type designation	TP2200 Comfort
Display	
Design of display	TFT
Screen diagonal	21.5 in
Display width	475.2 mm
Display height	267.3 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	1 920 pixel
 Vertical image resolution 	1 080 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	30 000 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	
 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
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V

Input current	
Current consumption (rated value)	1.7 A
Starting current inrush I ² t	0.5 A ² ·s
Power	0.077 0
Active power input, typ.	41 W
Processor	71 VV
	Voc
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	24 Mbyte
Type of output	
	No
Power LED	No
Error LED Acoustics	No
Buzzer	No
	Yes
Speaker Time of day	
Clock	Yes
 Hardware clock (real-time) Software clock 	Yes
Sonware clock retentive	
synchronizable	Yes; Back-up duration typically 6 weeks Yes
	1 65
Interfaces	2. 2 norte (quitab) Lindenandent nort
Number of industrial Ethernet interfaces Number of RS 485 interfaces	2; 2 ports (switch) + independent port 1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of RS 422 interfaces	0
Number of USB interfaces	2; USB 2.0
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of parallel interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
 Industrial Ethernet status LED 	3
 Number of ports of the integrated switch 	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes
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
Active X	Yes
JavaScript	Yes

● Java VM	No
Redundancy mode	
Media redundancy — MRP	Yes
Further protocols • CAN	No
• MODBUS	Yes
	165
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 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.	45 °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 1 080 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	Very local disease and all descripts in the size
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air
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 00721 - 2 C 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
EN 60721-3-6 — to mechanically active substances according to	(severity degree 3); * Yes; Class 6S3 incl. sand, dust; *
EN 60721-3-6	
Usage in industrial process technology	Very Olege 2 (augludien tricklangthulang)
— 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
pro-installed operating system	INU
Windows CE	Yes; Windows Embedded Compact 2013
	res, windows Embedded Compact 2015
configuration / header	Vee
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	Ne
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; V14 SP1 HSP and higher
 WinCC Advanced (TIA Portal) 	Yes; V14 SP1 HSP and higher
WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	
Online languages	
 Number of online/runtime languages 	32
Project languages	
 Languages per project 	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
	Yes
Libraries	Yes
Libraries Applications/options	
Libraries Applications/options • Web browser	Yes
Libraries Applications/options • Web browser • Pocket Word	Yes Yes
Libraries Applications/options • Web browser • Pocket Word • Pocket Excel	Yes Yes Yes
Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player	Yes Yes Yes
Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer	Yes Yes Yes Yes
Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer	Yes Yes Yes Yes Yes
Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer • SIMATIC WinCC Audit	Yes Yes Yes Yes Yes Yes
Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer • SIMATIC WinCC Audit Number of Visual Basic Scripts	Yes Yes Yes Yes Yes Yes
Libraries Applications/options • Web browser • Pocket Word • Pocket Excel • PDF Viewer • Media Player • SIMATIC WinCC Sm@rtServer • SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner	Yes Yes Yes Yes Yes Yes Yes

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Help system	220
Number of characters per info text	320
Message system	20
Number of alarm classes	32
Bit messages	
— Number of bit messages	6 000
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	500
Data records per recipe	1 000
Entries per data record	2 000
Size of internal recipe memory	4 Mbyte
Recipe memory expandable	Yes
Variables	103
Number of variables per device	4 096
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	
 Number of configurable images 	750
 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 	600
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 	40
Alarm view	Yes
Trend view	Yes
User view	Yes
Status/control	Yes

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- CSV Yes - TXT Yes - RDB Yes Security Yes • Number of user groups 50 • Number of user rights 32 • Number of users 50 • Password export/import Yes • SIMATIC Logon Yes • SIMATIC Logon Yes Logging through printer - • Alarms Yes • Report (shift log) Yes • Hardcopy Yes • Hardcopy Yes • Electronic print to file Yes, PDF, HTML Character sets - • Keyboard fonts - - US English Yes • UsB Yes • USB Yes • Eithernet Yes • UsB Yes • UsB Yes • UsB Yes • Using external storage medium Yes • S7-1200 Yes • S7-300 Yes • S7-300/400 Yes<		Yes
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RDB Yes Security 50 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 - US English Yes US English Yes USB Yes USB Yes USB Yes USB Yes Using external storage medium Yes S7-1200 Yes S7-1500 Yes S7-300/400 Yes S7-300/400 Yes S7-300/400 Yes WinAC Yes	- CSV	Yes
Security• Number of user groups50• Number of user rights32• Number of users50• Password export/importYes• SIMATIC LogonYesLogging through printerYes• AlarmsYes• Report (shift log)Yes• HardcopyYes• Electronic print to fileYes, PDF, HTMLCharacter sets-• Keyboard fonts US EnglishYes• USBYes• EthernetYes• USBYes• EthernetYes• S7-1200Yes• S7-1200Yes• S7-1500Yes• S7-300/400Yes• USGOIYes• USGOIYes• USGOIYes• WinACYes• WinACYes	— TXT	Yes
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Password export/importYesSIMATIC LogonYesLogging through printer-• AlarmsYes• Report (shift log)Yes• HardcopyYes• Electronic print to fileYes, PDF, HTMLCharacter sets-• Keyboard fonts US EnglishYes• MPI/PROFIBUS DPYes• USBYes• EleternetYes• S7-1200Yes• S7-1200Yes• S7-300/400Yes• S7-300/400Yes• LOGO!Yes• WinACYes	 Number of user rights 	32
• SIMATIC LogonYesLogging through printer• AlarmsYes• Report (shift log)Yes• HardcopyYes• Electronic print to fileYes, PDF, HTMLCharacter sets• Keyboard fontsUS EnglishYes• MPI/PROFIBUS DPYes• USBYes• EleternetYes• USBYes• S7-1200Yes• S7-1500Yes• S7-300/400Yes• S7-300/400Yes• LOGO!Yes• WinACYes	 Number of users 	50
Logging through printer• AlarmsYes• Report (shift log)Yes• HardcopyYes• Electronic print to fileYes; PDF, HTMLCharacter sets• Keyboard fontsUS EnglishUS EnglishYesTransfer (upload/download)Yes• MPI/PROFIBUS DPYes• USBYes• EthernetYes• using external storage mediumYesProcess couplingYes• S7-1200Yes• S7-300/400Yes• S7-300/400Yes• LOGO!Yes• WinACYes	 Password export/import 	Yes
Logging through printer• AlarmsYes• Report (shift log)Yes• HardcopyYes• Electronic print to fileYes; PDF, HTMLCharacter sets• Keyboard fontsUS EnglishUS EnglishYesTransfer (upload/download)Yes• MPI/PROFIBUS DPYes• USBYes• EthernetYes• using external storage mediumYesProcess couplingYes• S7-1200Yes• S7-300/400Yes• S7-300/400Yes• LOGO!Yes• WinACYes	SIMATIC Logon	Yes
• AlarmsYes• Report (shift log)Yes• HardcopyYes• Electronic print to fileYes; PDF, HTMLCharacter sets-• Keyboard fonts US EnglishYesTransfer (upload/download)Yes• MPI/PROFIBUS DPYes• USBYes• LithernetYes• USBYes• EthernetYes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes		
• Report (shift log)Yes• HardcopyYes• Electronic print to fileYes; PDF, HTMLCharacter sets-• Keyboard fonts US EnglishYesTransfer (upload/download)Yes• MPI/PROFIBUS DPYes• USBYes• EthernetYes• using external storage mediumYesProcess couplingYes• S7-1200Yes• S7-1200Yes• S7-1200Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes		Yes
HardcopyYes• Electronic print to fileYes; PDF, HTMLCharacter sets• Keyboard fonts- US EnglishYesTransfer (upload/download)• MPI/PROFIBUS DPYes• USBYes• USBYes• EthernetYes• using external storage mediumYes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes	Report (shift log)	
• Electronic print to fileYes; PDF, HTMLCharacter sets• Keyboard fonts US EnglishYesTransfer (upload/download)• MPI/PROFIBUS DPYes• USBYes• USBYes• EthernetYes• using external storage mediumYesProcess couplingYes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes		
Character sets• Keyboard fonts US EnglishYesTransfer (upload/download)• MPI/PROFIBUS DPYes• USBYes• USBYes• EthernetYes• using external storage mediumYesProcess coupling• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes		
• Keyboard fontsYes— US EnglishYesTransfer (upload/download)• MPI/PROFIBUS DPYes• USBYes• EthernetYes• using external storage mediumYesProcess coupling• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes		
US EnglishYesTransfer (upload/download)Yes• MPI/PROFIBUS DPYes• USBYes• EthernetYes• using external storage mediumYesProcess coupling• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes		
Transfer (upload/download)• MPI/PROFIBUS DPYes• USBYes• EthernetYes• using external storage mediumYesProcess couplingYes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes	-	Vec
• MPI/PROFIBUS DP Yes • USB Yes • Ethernet Yes • using external storage medium Yes Process coupling Yes • S7-1200 Yes • S7-1500 Yes • S7-200 Yes • S7-300/400 Yes • LOGO! Yes • WinAC Yes		
• USB Yes • Ethernet Yes • using external storage medium Yes Process coupling Yes • S7-1200 Yes • S7-1500 Yes • S7-200 Yes • S7-300/400 Yes • S7-300/400 Yes • LOGO! Yes • WinAC Yes		Voc
• EthernetYes• using external storage mediumYesProcess couplingYes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes		
• using external storage mediumYesProcess couplingYes• S7-1200Yes• S7-1500Yes• S7-200Yes• S7-300/400Yes• LOGO!Yes• WinACYes		
Process coupling • S7-1200 Yes • S7-1500 Yes • S7-200 Yes • S7-300/400 Yes • LOGO! Yes • WinAC Yes		
• S7-1200 Yes • S7-1500 Yes • S7-200 Yes • S7-300/400 Yes • LOGO! Yes • WinAC Yes		Yes
• S7-1500 Yes • S7-200 Yes • S7-300/400 Yes • LOGO! Yes • WinAC Yes		
• S7-200 Yes • S7-300/400 Yes • LOGO! Yes • WinAC Yes		
• S7-300/400 Yes • LOGO! Yes • WinAC Yes		
LOGO! YesWinAC Yes		
• WinAC Yes	• S7-300/400	
	• LOGO!	Yes
SINUMERIK Yes; With SINUMERIK option package as from WinCC V15 or higher	WinAC	Yes
	• SINUMERIK	Yes; With SINUMERIK option package as from WinCC V15 or higher

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; Up to 16 GB
SIMATIC HMI USB stick	Yes; Up to 8 GB
Network camera	Yes
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes
Stainless steel	No
Dimensions	
Width of the housing front	560 mm
Height of housing front	380 mm
Mounting cutout, width	542 mm
Mounting cutout, height	362 mm
Overall depth	75 mm
Weights	
Weight (without packaging)	6.7 kg
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