SIEMENS

Data sheet

6AG1124-0JC01-4AX0

SIPLUS HMI TP900 Comfort based on 6AV2124-0JC01-0AX0 with conformal coating, $0...{+}50\ ^{\circ}\text{C},$



Figure similar

General information		
Product type designation	TP900 Comfort	
Display		
Design of display	TFT	
Screen diagonal	9 in	
Display width	195 mm	
Display height	117 mm	
Number of colors	16 777 216	
Resolution (pixels)		
Horizontal image resolution	800 pixel	
 Vertical image resolution 	480 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		

	80
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)	0.75 A
Starting current inrush I ² t	0.5 A ² ·s
Power	
Active power input, typ.	18 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	
Number of industrial Ethernet interfaces	2
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	1
Number of RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
USB Mini B	1; 5-pole
	1; 5-pole 0
USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces	
Number of 20 mA interfaces (TTY)	0
Number of 20 mA interfaces (TTY) Number of parallel interfaces	0 0
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces	0 0 0
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots	0 0 0 2
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces	0 0 0 2
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet	0 0 0 2 No
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	0 0 0 2 No 2
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	0 0 0 2 No 2
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	0 0 0 2 No 2 2 2 2
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	0 0 0 2 No 2 2 2 2 Yes Yes
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	0 0 0 2 No 2 2 2 2 2 Yes
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	0 0 0 2 No 2 2 2 2 Yes Yes Yes; As of WinCC V12
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	0 0 2 No 2 2 2 2 2 Yes Yes Yes; As of WinCC V12 Yes
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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 EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP	0 0 2 No 2 2 2 2 Yes Yes; As of WinCC V12 Yes Yes <td< td=""></td<>
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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 EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DCP • LLDP WEB characteristics • HTTP	0 0 2 No 2 2 2 2 2 2 Yes
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 EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics	0 0 2 No 2 2 2 2 2 2 Yes Yes Yes Yes Yes Yes Yes Yes

 KML KML KML KML KML SS Active X No IvarScript Ves IvarScript Ves Ves KMC Redundancy mode Media redundancy MRP Yes; As of WinCC V12 Further protocols CAN MODBUS Yes Emission of radio interference acc. to EN 55 011 Ivar Comparison Mono MODBUS Yes Ivar Comparison Ves Ivar Comparison Ves Ivar Comparison Ves Comparison Person Person<
• Active X No • JavaScript Yes • Java VM No Redundancy mode
• JavaScript Yes • Java VM No Redundancy mode
• Java VM No Redundancy mode
Redundancy 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 A, for use in industrial areas No Degree and class of protection IP65 IP (rath front) IP65 IP (rad) IP20 NEMA (front) IP20 • Enclosure Type 4 at the front Yes Suited for indoor use Yes Suited for outdoor use No Operation (vertical installation, min. 0 °C; = Tmin - For vertical installation, min. 0 °C; = Tmin - For vertical installation, max. 50 °C; = Tmin - At maximum tilt angle, min. 0 °C; = Tmin - At maximum tilt angle, max. 40 °C; = Tmin - For vertical installation, max. 40 °C; = Tmin - For vertical installation, min. 0 °C; = Tmin - At maximum tilt angle, max. 40 °C; = Tmin - For vertical installation, max. 40 °C; = Tmax
Media redundancy MRP Yes; As of WinCC V12 Further protocols • • CAN No • MODBUS Yes Emo: • Emission of radio interference acc. to EN 55 011 • • Limit class A, for use in industrial areas Yes • Limit class of protection • PP (at the front) IP65 IP (at the front) IP65 IP (at the front) IP20 NeAdd (front) • • Enclosure Type 4 at the front Yes • Enclosure Type 4 at the front Yes Suiled for indoor use Yes Suiled for outdoor use No Ambient conditions Ves Suiled for outdoor use No Ambient temperature during operation 0 °C; = Tmin - For vertical installation, min. 0 °C; = Tmin - For vertical installation, min. 0 °C; = Tmin - At maximum tilt angle, min. 0 °C; = Tmin - For vertical installation, max. 40 °C; = Tmin - For vertical installation, max. 40 °C; = Tmin - For vertical installation, max.
MRP Yes; As of WinCC V12 Further protocols No • 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 A, for use in residential areas No Degree and class of protection IP (at the front) IP (at the front) IP65 IP (rear) IP20 NEMA (front) Enclosure Type 4x at the front • Enclosure Type 4x at the front Yes Suited for indoor use Yes Suited for indoor use Yes Suited for outdoor use No Ambient conditions Suited for indoor use Operation (vertical installation, min. 0 °C; = Tmin - For vertical installation, max. 50 °C; = Tmin - At maximum til angle, min. 0 °C; = Tmin - At maximum til angle, min. 0 °C; = Tmin - For vertical installation, max. 40 °C; = Tmin - For vertical installation, max. 40 °C; = Tmin - For vertical installation, max. 40 °C; = Tmin - At maximum til angle, min. 0 °C; =
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• Limit class B, for use in residential areas No Degree and class of protection IP (at the front) IP (at the front) IP (at the front) IP 20 NEMA (front) IP 20 • Enclosure Type 4 at the front Yes • Enclosure Type 4 xt the front Yes • Enclosure Type 4 xt the front Yes • Enclosure Type 4 xt the front Yes Suited for indoor use Yes Suited for outdoor use No Ambient temperature during operation No Operation (vertical installation) 0 °C; = Tmin - For vertical installation, min. 0 °C; = Tmax Operation (max. tilt angle) - At maximum tilt angle, min. - At maximum tilt angle, min. 0 °C; = Tmin - At maximum tilt angle, max. 40 °C; = Tmax Operation (vertical installation, max. 40 °C; = Tmax Operation (vertical installation, max. 40 °C; = Tmin - For vertical installation, max. 40 °C; = Tmax Operation (vertical installation, max. 40 °C; = Tmax Operation (vertical installation, max. 5° °C; = Tmax Ambient temperature during storage/transportation - At maximum
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IP (at the front) IP65 IP (rear) IP20 NEMA (front) IP20 • Enclosure Type 4 at the front Yes • Enclosure Type 4 x at the front Yes Ambient conditions Yes 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 (war. tilt angle, min. 0 °C; = Tmin - At maximum tilt angle, max. 40 °C; = Tmax Operation (vertical installation, max. 40 °C; = Tmax Operation (vertical installation, portrait format) - For vertical installation, max. - At maximum tilt angle, max. 40 °C; = Tmin - For vertical installation, max. 40 °C; = Tmax Operation (max. tilt angle, portrait format) - At maximum tilt angle, max. - At maximum tilt angle, max. 40 °C; = Tmax Operation (max. tilt angle, max. 35 °C; = Tmax Ambient temperature during storage/transportation - At maximum tilt angle, max.
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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. At maximum tilt angle, max. 0 °C; = Tmin At maximum tilt angle, max. 35 °C; = Tmax Ambient temperature during storage/transportation -20 °C
— 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 -20 °C
Operation (max. tilt angle, portrait format) 0 °C; = Tmin — At maximum tilt angle, min. 0 °C; = Tmin — At maximum tilt angle, max. 35 °C; = Tmax Ambient temperature during storage/transportation -20 °C
At maximum tilt angle, min. 0 °C; = Tmin At maximum tilt angle, max. 35 °C; = Tmax Ambient temperature during storage/transportation -20 °C
— At maximum tilt angle, max. 35 °C; = Tmax Ambient temperature during storage/transportation -20 °C
Ambient temperature during storage/transportation • min20 °C
• min20 °C
• max. 60 C
Altitude during execution relating to each local
Altitude during operation relating to sea level Installation altitude above sea level, max. 5 000 m
 Ambient air temperature-barometric pressure-altitude Ambient air temperature-barometric pressure-altitude Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (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 60068- 2-38, max. 100 %; RH incl. condensation/frost (no commissioning under condensation conditions)
Resistance
Coolants and lubricants
— 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 Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna);
 — to chemically active substances according to EN — to chemically active substances — to c
— to energinally active substances according to EN — to mechanically active substances according to EN Tes, class 304 (RT < 75 %) incl. sait spray acc. to EN 00000-2-32 (seventy
60721-3-3
Use on ships/at sea
- to biologically active substances according to EN Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
- to chemically active substances according to EN Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity

60721-3-6	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	Yes; Class 3 (excluding trichlorethylene)
60654-4	
 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 	* The supplied plug covers must remain in place over the unused interfaces
conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	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	
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	
· ····	

	4 000
— 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
-	90
Number of characters per message	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Recipe management	200
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	
 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
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
- realized of graphico holo per project	

Number of entries per graphics list	500
Archiving	300
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 Process coupling	No
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-200	Yes
• LOGO!	Yes
• WinAC	Yes
SINUMERIK	Yes; with SINUMERIK option package
SINOMERIN SIMOTION	No; With WinCC, subsequent version
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	

Yes
Yes
Yes
Yes
Yes
No
Yes
No
274 mm
190 mm
251 mm
166 mm
63 mm
1.9 kg
2.6 kg

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