SIEMENS

Data sheet

6AV2124-0JC01-0AX0

SIMATIC HMI TP900 Comfort, Comfort Panel, touch operation, 9" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable from WinCC Comfort V11



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	
Type of supply voltage	DC

Rated value (DC)	24 V
Rated value (DC)	24 V 19.2 V
permissible range, lower limit (DC)	
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	0.75 A
Starting current inrush I²t	0.5 A²-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	Yes
• retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	100
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, together with NO 465
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)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes



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• 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
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
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	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)	Yes
 American Bureau of Shipping (ABS) 	Yes
Bureau Veritas (BV)	Yes
 Det Norske Veritas (DNV) 	Yes
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (Class NK) 	Yes
Polski Rejestr Statkow (PRS)	No
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
— For vertical installation, max.	50 °C; (55 °C, see entry ID: 64847814)
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	-20 °C
• min.	-20 °C
max. Relative humidity	00 C
	90 %; no condensation
Operation, max. Operating systems.	30 70, 110 CUTICETISALIOTI
Operating systems	Ni-
proprietary	No
pre-installed operating system	Vee
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 WordPocket Excel	Yes Yes
Pocket WordPocket ExcelPDF Viewer	Yes Yes Yes
Pocket WordPocket ExcelPDF ViewerMedia Player	Yes Yes Yes Yes
 Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer 	Yes Yes Yes Yes Yes Yes
 Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit 	Yes Yes Yes Yes Yes Yes Yes
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
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 Yes
Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled	Yes Yes Yes Yes Yes Yes Yes Yes Yes
Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled	Yes Yes Yes Yes Yes Yes Yes Yes
Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system	Yes
Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes	Yes
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Number of variables per device 2.048 Number of variables per screen 400 Limit values Yes Multiplexing Yes Structures Yes Armys		165
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Image objects		
Number of objects per image		
■ Text fields ■ I/O fields ■ I/O fields ■ Graphic I/O fields (graphics list) ■ Symbolic I/O fields (graphics list) ■ Symbolic I/O fields (graphics list) ■ Dateltime fields ■ Switches ■ Dateltime fields ■ Switches ■ Buttons ■ Graphic display ■ Graphic display ■ I/O seasons ■ Geometric objects ■ Number of complex objects yes ■ Number of complex objects yes ■ Number of complex objects yes ■ Number of complex objects yes oreen ■ Alarm view ■ Yes ■ User view ■ User view ■ User view ■ Recipe view ■ Number of complex objects yes ■ Madia Player ■ Media Player ■ HTML browser ■ PDF display ■ Yes ■ Bar graphs ■ Bar graphs ■ Bar graphs ■ Bar graphs ■ Sidicers ■ Pointer instruments ■ Analog/digital clock □ Sumber of text lists per project ■ Number of entries per text list ■ Number of entries per rext list ■ Number of entries per graphics list ■ Sequential archive ■ Process value archive ● Process value archive ● Process value archive ● Process value archive ■ Process value archive ● Process value archive ■ Process value archive ■ Process value archi		400
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Graphic display	 Switches 	Yes
• Icons • Geometric objects Complex image objects • Number of complex objects per screen • Alarm view • Trend view • Trend view • User view • Status/control • Status/control • Sidens of service • Recipe view • Yes • Recipe view • Yes • Recipe view • Yes • Wes • PDF display • Yes • PDF display • Yes • Pamera display • Yes • Pamera display • Yes • Pointer instruments • Yes • Pointer instruments • Yes • Pointer instruments • Yes • Number of text lists per project • Number of graphics lists per project • Number of entries per text list • Number of entries per graphics list • Number of entries per device • Number of entries per device • Number of entries per device • Number of entries per archive • Wes • Process value archive • Yes • Process value archive • Yes • Sequential archive • Yes • Sequential archive	Buttons	Yes
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Complex image objects 20 • Number of complex objects per screen 20 • Alarm view Yes • Trend view Yes • User view Yes • Status/control Yes • Recipe view Yes • Recipe view Yes • (Ky, trend view Yes • System diagnostics view Yes • Media Player Yes • HTML browser Yes • PDF display Yes • IP camera display Yes • Bar graphs Yes • Silders Yes • Pointer instruments Yes • Pointer instruments Yes • Pointer instruments Yes • Number of ext lists per project 500 • Number of ext lists per text list 500 • Number of entries per text list 500 • Number of entries per graphics list 500 • Number of entries per device 50 • Number of entries per archive 20 000 • Message archive Yes <td></td> <td>Yes</td>		Yes
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 ₀) 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 • Pointer instruments Yes • Pointer instruments Yes • Number of entries per text list 500 • Number of entries per text list 500 • Number of entries per graphics list 500 • Number of entries per device 50 • Number of entries per archive 20 000 • Message archive Yes • Process value archive Yes • Process value archive Yes	Geometric objects	Yes
Alarm view Trend view Trend view User view User view Status/control Sm@rtClient view Recipe view Facipe view Faci	Complex image objects	
■ Trend view ■ User view ■ User view ■ Status/control ■ Sm@rtClient view ■ Recipe view ■ Recipe view ■ Recipe view ■ Recipe view ■ Yes ■ Media Player ■ Media Player ■ HTML browser ■ HTML browser ■ PDF display ■ PDF display ■ IP camera display ■ Pa graphs ■ Bar graphs ■ Sliders ■ Pointer instruments ■ Pointer instruments ■ Analog/digital clock Lists ■ Number of text lists per project ■ Number of entries per text list ● Number of entries per graphics list ■ Number of entries per graphics list ■ Number of entries per graphics list ■ Number of entries per device ■ Number of entries per device ● Number of entries per archive ● Process value archive ● Process value archive ● Archiving methods — Sequential archive ● Yes	 Number of complex objects per screen 	20
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Status/control Sm@rtClient view Fes Recipe view Fi(x) trend view Fes Fi(x) trend view Fes System diagnostics view Fes Media Player Final Brayer Fin	Trend view	Yes
Sm@rtClient view Recipe view F(x) trend view F(x) System diagnostics view F(x) System diagnostics view F(x) F(• User view	Yes
Recipe view f(x) trend view f(x) trend view Yes System diagnostics view Yes Media Player Yes HTML browser PDF display Fes PDF display Fes Bar graphs Siliders Pointer instruments Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of entries per graphics list Number of entries per device Number of entries per archive Nessage archive Process value archive Yes Archiving methods — Sequential archive Yes	 Status/control 	Yes
• f(x) trend view • System diagnostics view • Media Player • Media Player • HTML browser • PDF display • PDF display • Pamera display • Bar graphs • Sliders • Pointer instruments • Pointer instruments • Analog/digital clock Lists • Number of entries per text list • Number of entries per graphics list • Number of entries per graphics list • Number of entries per device • Number of entries per archive • Process value archive • Archiving methods — Sequential archive Yes	 Sm@rtClient view 	Yes
System diagnostics view Media Player Media Player Yes HTML browser Yes PDF display Pc amera display Siders Siders Pointer instruments Analog/digital clock Lists Number of text lists per project Number of graphics lists per project Number of entries per graphics list Number of entries per device Number of archives per device Number of entries per archive So Number of entries per archive Yes Process value archive Process value archive Archiving methods — Sequential archive Yes	Recipe view	Yes
 Media Player HTML browser Yes PDF display IP camera display Yes Bar graphs Sliders Pointer instruments Analog/digital clock Ves Analog/digital clock Ves Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Number of entries per device Number of archives per device Number of entries per archive Yes Process value archive Yes Archiving methods — Sequential archive Yes 	f(x) trend view	Yes
 HTML browser PDF display IP camera display Yes Bar graphs Sliders Pointer instruments Analog/digital clock Ves Anumber of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Number of entries per graphics list Number of entries per graphics list Number of entries per device Number of archives per device Number of entries per archive Process value archive Archiving methods Sequential archive Yes 	 System diagnostics view 	Yes
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 Bar graphs Sliders Pointer instruments Pointer instruments Pointer instruments Yes Analog/digital clock Yes Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of graphics lists per project Number of entries per graphics list Number of entries per graphics list Archiving Number of archives per device Number of archives per archive Number of entries per archive Number of entries per archive Process value archive Archiving methods Archiving methods Sequential archive Yes Yes	PDF display	Yes
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 Pointer instruments Analog/digital clock Yes Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Number of entries per archive Yes Process value archive Archiving methods Archiving methods Sequential archive Yes Yes Archiving methods Sequential archive Yes 	Bar graphs	Yes
 Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project Number of entries per graphics list Number of entries per graphics list Archiving Number of archives per device Number of entries per archive Number of entries per archive Process value archive Archiving methods Archiving methods Sequential archive Yes 	 Sliders 	Yes
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 Process value archive Archiving methods Sequential archive Yes 		
 Archiving methods — Sequential archive Yes 	Message archive	
— Sequential archive Yes	 Process value archive 	Yes
	 Archiving methods 	
— Short-term archive Yes		Yes
	— Short-term archive	Yes



Nemony card		
— LISB memory — Ethernet	Memory location	
Data storage format		Yes
Data storage format	— USB memory	Yes
CSV	— Ethernet	Yes
— TXT — RDB Security • Number of user groups • Number of users • So • Number of users • So • Password export/import • (a) MATTC Logon • Yes • SIMATTC Logon • Yes • SIMATTC Logon • Yes • Report (shift log) • (a) Haddoop • (a) Haddoop • (a) Haddoop • (b) Haddoop • (b) Haddoop • (b) Haddoop • (b) Haddoop • (c) Haddoop • (Data storage format	
ROB	— CSV	Yes
Number of user groups	— TXT	Yes
Number of user groups 50	— RDB	Yes
Number of user rights 32	Security	
Number of users S0	 Number of user groups 	50
Password export/import Yes	 Number of user rights 	32
Logging through printer	 Number of users 	50
Alarms	 Password export/import 	Yes
Alarms	SIMATIC Logon	Yes
Report (shift log)	Logging through printer	
Hardcopy	• Alarms	Yes
	Report (shift log)	Yes
Character sets	Hardcopy	Yes
Character sets	Electronic print to file	Yes; PDF, HTML
— US English	Character sets	
— US English		
Transfer (upload/download) MPI/PROFIGUS DP		Yes
■ MPI/PROFIBUS DP ■ USB ■ Yes ■ Ethemet ■ using external storage medium Yes Process coupling ■ S7-1200 ■ S7-1500 ■ Yes ■ S7-1500 ■ Yes ■ S7-300/400 ■ S7-300/400 ■ UGGOI ■ WinAC ■ SINUMERIK		
■ Eithermet ■ using external storage medium Yes Process coupling S7-1200 Yes S7-1500 Yes S7-200 WinAC Yes SIMDIRERIK Yes; with SINUMERIK option package SIMOTION Allen Bradley (EtherNet/IP) Yes Allen Bradley (DF1) Yes Allen Bradley (DF1) Yes Mitsubishi (MC TCP/IP) Yes Mitsubishi (MC TCP/IP) Yes OMRON (FINS TCP) OMRON (FINS TCP) OMRON (LINK/Multink) Yes Modicon (Modbus TCP/IP) Yes Modicon (Modbus TCP/IP) Yes Modicon (Modbus TCP/IP) Yes Service tools/configuration aids Backup/Restore anumality Yes Service tools/configuration aids Backup/Restore anumality Yes Service tools/configuration aids Backup/Restore anumality Yes Simulation Device switchover Printer Yes Porlphorals/Options Printer Yes SIMATIC HMI MM memory card: Secure Digital memory card Yes; Up to 128 MB SIMATIC HMI CF memory card Compact Flash Card No USB memory Yes SIMATIC HMI USB stick) Yes; Up to 16 GB SIMATIC HMI USB stick) Yes; Up to 16 GB		Yes
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	SIMATIC IPC USB Flashdrive (USB stick)	
Network camera Yes	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	274 mm
Height of housing front	190 mm
Mounting cutout, width	251 mm
Mounting cutout, height	166 mm
Overall depth	62.7 mm
Weights	
Weight (without packaging)	1.9 kg
Weight (with packaging)	2.6 kg

last modified: 4/10/2024 🖸

