## 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)	
<ul> <li>Horizontal image resolution</li> </ul>	800 pixel
Vertical image resolution	480 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	80 000 h
Backlight dimmable	Yes; 0-100 %
Control elements	
Keyboard fonts	
Function keys	
<ul> <li>— Number of function keys</li> </ul>	0
<ul> <li>— Number of function keys with LEDs</li> </ul>	0
Keys with LED	No
System keys	No
<ul> <li>Numeric keyboard</li> </ul>	Yes; Onscreen keyboard
<ul> <li>alphanumeric keyboard</li> </ul>	Yes; Onscreen keyboard
Touch operation	
<ul> <li>Design as touch screen</li> </ul>	Yes; Analog-resistive
Expansions for operator control of the process	
<ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fx	0
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— F1Fx	0
<ul> <li>Direct keys (touch buttons as S7 input I/O)</li> </ul>	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

	2414
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 <sup>2</sup> t	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	
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
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	
<ul> <li>Industrial Ethernet status LED</li> </ul>	2
<ul> <li>Number of ports of the integrated switch</li> </ul>	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

• 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	
<ul> <li>Limit class A, for use in industrial areas</li> </ul>	Yes
<ul> <li>Limit class B, for use in residential areas</li> </ul>	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
<ul> <li>FM Class I Division 2</li> </ul>	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
, a maximum dir dirgio, maxi	

Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Operation, max.	90 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
configuration / header	103
	Yes
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	
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; 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	Vee
Web browser	Yes
Pocket Word	Yes
Pocket Excel	Yes
PDF Viewer	Yes
Media Player	Yes
<ul> <li>SIMATIC WinCC Sm@rtServer</li> </ul>	Mar.
	Yes
SIMATIC WinCC Audit	Yes
SIMATIC WinCC Audit Number of Visual Basic Scripts	
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner	Yes Yes
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled	Yes Yes Yes
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled     task-controlled	Yes Yes
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled     task-controlled Message system	Yes Yes Yes Yes
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled     task-controlled Message system     Number of alarm classes	Yes Yes Yes Yes 32
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled     task-controlled Message system     Number of alarm classes     Bit messages	Yes Yes Yes Yes Yes
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled     task-controlled Message system     Number of alarm classes     Bit messages     — Number of bit messages	Yes Yes Yes Yes 32 Yes 4 000
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled     task-controlled Message system     Number of alarm classes     Bit messages     — Number of bit messages     Analog messages	Yes Yes Yes Yes Yes 32 Yes 4 000 Yes
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled     task-controlled Message system     Number of alarm classes     Bit messages     — Number of bit messages     Analog messages     — Number of analog messages	Yes Yes Yes Yes Yes Yes 4 000 Yes 200
<ul> <li>SIMATIC WinCC Audit</li> <li>Number of Visual Basic Scripts</li> <li>Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> </ul> </li> <li>Message system <ul> <li>Number of alarm classes</li> <li>Bit messages</li> <li>Number of bit messages</li> <li>Analog messages</li> <li>Number of analog messages</li> <li>S7 alarm number procedure</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes 4 000 Yes 200 Yes
SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled     task-controlled     task-controlled 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 Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes
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SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner     time-controlled     task-controlled     task-controlled 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     System event, more (SIMATIC S7, SINUMERIK, SIMOTION, )	Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes
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<ul> <li>SIMATIC WinCC Audit</li> <li>Number of Visual Basic Scripts</li> <li>Task planner <ul> <li>time-controlled</li> <li>task-controlled</li> </ul> </li> <li>Message system <ul> <li>Number of alarm classes</li> <li>Bit messages</li> <li>Number of bit messages</li> <li>Analog messages</li> <li>ST alarm number procedure</li> <li>System messages HMI</li> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION, )</li> <li>Number of process values per message</li> <li>Acknowledgment groups</li> <li>Message indicator</li> </ul> </li> </ul>	Yes Yes Yes Yes Yes Yes 4 000 Yes 200 Yes 200 Yes Yes Yes Yes Yes Yes Yes

- Entrino por data record	1 000
Entries per data record     Size of internal recipe memory	1 000 2 Mbyte
Size of internal recipe memory     Becipe memory expandable	2 Mbyte Yes
Recipe memory expandable Variables	100
Number of variables per device	2 048
Number of variables per device     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
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	400
Text fields	Yes
• I/O fields	Yes
<ul> <li>Graphic I/O fields (graphics list)</li> </ul>	Yes
<ul> <li>Symbolic I/O fields (text list)</li> </ul>	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
HTML browser	Yes
PDF display	Yes
IP camera display	Yes
Bar graphs     Sliders	Yes
Sliders     Pointer instrumente	Yes
Pointer instruments     Analog/digital clock	Yes
Analog/digital clock Lists	
Number of text lists per project	500
Number of next lists per project     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
<ul><li>Process value archive</li><li>Archiving methods</li></ul>	Yes
Process value archive	

Memory location	
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
<ul> <li>Data storage format</li> </ul>	
- CSV	Yes
— TXT	Yes
— RDB	Yes
Security	
<ul> <li>Number of user groups</li> </ul>	50
<ul> <li>Number of user rights</li> </ul>	32
Number of users	50
<ul> <li>Password export/import</li> </ul>	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
<ul> <li>using external storage medium</li> </ul>	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
<ul> <li>Allen Bradley (EtherNet/IP)</li> </ul>	Yes
	Yes
Allen Bradley (DF1)	
<ul><li>Allen Bradley (DF1)</li><li>Mitsubishi (MC TCP/IP)</li></ul>	Yes
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> </ul>	Yes Yes
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> </ul>	Yes Yes No
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> </ul>	Yes Yes No Yes
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<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul>	Yes Yes Yes Yes Yes
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<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> </ul>	Yes Yes No Yes Yes Yes Yes
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> </ul>	Yes Yes No Yes Yes Yes Yes Yes
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> </ul>	Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul>	Yes Yes No Yes Yes Yes Yes Yes
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<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes
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<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card Compact Flash Card	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card USB memory	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI CF memory card Compact Flash Card USB memory SIMATIC IPC USB Flashdrive (USB stick)	Yes         Yes         No         Yes         Ye
<ul> <li>Allen Bradley (DF1)</li> <li>Mitsubishi (MC TCP/IP)</li> <li>Mitsubishi (FX)</li> <li>OMRON (FINS TCP)</li> <li>OMRON (LINK/Multilink)</li> <li>Modicon (Modbus TCP/IP)</li> <li>Modicon (Modbus)</li> <li>OPC UA Client</li> <li>OPC UA Server</li> </ul> Service tools/configuration aids <ul> <li>Backup/Restore manually</li> <li>Backup/Restore automatically</li> <li>Simulation</li> <li>Device switchover</li> </ul> Peripherals/Options Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card SIMATIC HMI CF memory card Compact Flash Card USB memory	Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes 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:

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