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

	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 ² 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	
 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

• 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

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image and catalog system • Windows CE • Sign and catar Atam system (inclustor) • Yes Process value disploy (outyn) • Yes Process value disploy (outyn) • Site P 7 Basis (TA Portal) • WinCC finicite Compact • WinCC finicite Compact • WinCC finicite Compact • WinCC finicite Compact • WinCC finicite Advanced • Wint Finicite Advanced • Wint Finic Advanced		No
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Process value default (input) possible Yes Recipe management Yes Configuration software No • STEP 7 Professional (TR Portal) No • STEP 7 Professional (TR Portal) No • WINCC flexible Compact No • WINCC flexible Advanced No • WINCC Exible Advanced Yes, from V11 • WINCC Exible Advanced Yes, from V11 • WINCC Control (TIA Portal) Yes, from V11 • WINCC Control (TIA Portal) Yes, from V11 • WINCC Control (TIA Portal) Yes, from V11 • Reguesse Yes • Project Ianguages Yes • Languages per project 32 • Project WindC (TIA Portal) Yes • Number of Information (Signame Yes • Neb browser Yes • Neb tron Signame Yes • Neb tron Y		
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Pocket ExcelYesPDF ViewerYes• Media PlayerYes• SIMATIC WinCC Sm@rtServerYes• SIMATIC WinCC AuditYes• Number of Visual Basic ScriptsYes• Itime-controlledYes• time-controlledYes• task-controlledYes• task-controlledYes• Number of bial messagesYes• Number of othalog messagesYes• System went, more (SIMATIC ST, SINUMERIK, SIMOTION,)Yes• Number of characters per message80• Number of characters per message80• Number of process values per messageYes• Nu		
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SIMATIC WinCC Sm@rtServerYesSIMATIC WinCC AuditYesNumber of Visual Basic ScriptsYesTask planner*********************************	Pocket WordPocket Excel	Yes Yes
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Number of Visual Basic Scripts Yes Task planner	 Pocket Word Pocket Excel PDF Viewer Media Player 	Yes Yes Yes
Task planner Yes • time-controlled Yes • task-controlled Yes Message system 32 • Number of alarm classes 32 • Bit messages Yes - Number of bit messages 4 000 • Analog messages Yes - Number of analog messages Yes - Number of analog messages 200 • S7 alarm number procedure 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 indicator Yes • Mumber of recipes 300	 Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer 	Yes Yes Yes Yes
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Message system • Number of alarm classes 32 • Bit messages Yes - Number of bit messages 4 000 • Analog messages Yes - Number of analog messages 200 • S7 alarm number procedure Yes • System messages HMI Yes • System messages HMI Yes • System vevent, 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 Recipe management Yes • Number of recipes 300	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
Number of alarm classes32Bit messagesYes- Number of bit messages4 000• Analog messagesYes- Number of analog messages200• S7 alarm number procedureYes• System messages HMIYes• System nore (SIMATIC S7, SINUMERIK, SIMOTION,)Yes• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Number of recipes300	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
+ Bit messagesYes- Number of bit messages4 000- Analog messagesYes- Number of analog messages200- Number of analog messagesYes- S7 alarm number procedureYes- System messages HMIYes- System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes- Number of characters per message80- Number of characters per message80- Acknowledgment groupsYes- Acknowledgment groupsYes- Message indicatorYes- Number of recipes300	 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
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- Number of analog messages200- Number of analog messagesYes- S7 alarm number procedureYes- System messages HMIYes- System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes- Number of characters per message80- Number of process values per message8- Acknowledgment groupsYes- Message indicatorYes- Recipe managementYes- Number of recipes300	 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 Bit messages 	Yes Yes Yes Yes Yes Yes Yes Yes Yes
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• System messages HMIYes• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Message indicatorYes• Number of recipes300	 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 task-controlled Message system Number of alarm classes Bit messages — Number of bit messages Analog messages 	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 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 Recipe management Yes • Number of recipes 300	 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 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 Yes Yes Yes Yes
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• Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes Recipe management 300	 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 Bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI 	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes
• Acknowledgment groups Yes • Message indicator Yes Recipe management 300	 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 task-controlled Number of alarm classes Bit messages Number of bit messages Analog messages System number procedure System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) 	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes
Message indicator Yes Recipe management Number of recipes 300	 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 task-controlled Number of alarm classes Bit messages Number of bit messages Analog messages System number procedure System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) 	Yes Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes Yes Yes
Recipe management • Number of recipes 300	 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 Bit messages Number of bit messages Analog messages Number of analog messages System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Number of recipes 300	 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 Bit messages Number of bit messages Analog messages ST alarm number procedure System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message 	Yes Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes Yes 80 8
	 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 task-controlled Number of alarm classes Bit messages Number of bit messages Number of analog messages S7 alarm number procedure System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of process values per message Aumber of process values per message Acknowledgment groups 	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes 80 80 8
Data records per recipe 500	 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 task-controlled Number of alarm classes Bit messages Number of bit messages Analog messages System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of process values per message Acknowledgment groups Message indicator 	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes 80 80 8
	 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 Bit messages Number of bit messages Analog messages System number procedure System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of process values per message Acknowledgment groups Acknowledgment groups Message indicator 	Yes Yes Yes Yes Yes Yes Yes Yes 32 Yes 4 000 Yes 200 Yes 200 Yes 80 80 8 8 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
 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
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
Process value archiveArchiving methods	Yes
Process value archive	

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 	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
 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	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 🖸