SIEMENS

Data sheet

6AV2124-0UC02-0AX1



SIMATIC HMI TP1900 Comfort, Comfort Panel, Touch operation, 19" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP

General information	
Product type designation	TP1900 Comfort
Display	
Design of display	TFT
Screen diagonal	18.5 in
Display width	409.8 mm
Display height	230.4 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	1 366 pixel
 Vertical image resolution 	768 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	50 000 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 (roted value)	1.7 A
Current consumption (rated value) Starting current inrush I ² t	
Power	
	44.101
Active power input, typ.	41 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	24 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	2; 2 ports (switch) + independent port
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
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	3
Number of ports of the integrated switch	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
	Yes
PROFIBUS	Yes
EtherNet/IP	Yes
MPI Protocole (Ethornot)	Yes
Protocols (Ethernet) • TCP/IP	Voc
• TCP/IP • DHCP	Yes
• DHCP • SNMP	Yes
• SNMP • DCP	Yes
• DCP • 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
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 A, for use in residential areas	No
Degree and class of protection	
	IP65
IP (at the front) IP (rear)	IP20
NEMA (front)	IF 20
Enclosure Type 4 at the front	Yes
 Enclosure Type 4 at the front Enclosure Type 4x at the front 	Yes
Standards, approvals, certificates	Van
CE mark	Yes Yes
CULus RCM (formerly C-TICK)	Yes
	Yes
KC approval EAC (formerly Gost-R)	Yes
Use in hazardous areas	105
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; For inscription on device rating plate
cULus Class II Division 2	No; Available soon
FM Class I Division 2	Yes; For inscription on device rating plate
FM Class II Division 2	No: Available soon
Marine approval	
Germanischer Lloyd (GL)	No
American Bureau of Shipping (ABS)	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
Korean Register of Shipping (KRS)	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (Class NK)	No
Polski Rejestr Statkow (PRS)	No
Chinese Classification Society (CCS)	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.	45 °C
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 ℃
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	20 °C
Relative humidity	
• Operation, max.	90 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes; Windows Embedded Compact 2013
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; 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	
Project languages • Languages per project	32
	32
Languages per project	32 Yes
Languages per project Functionality under WinCC (TIA Portal) Libraries	
Languages per project Functionality under WinCC (TIA Portal)	
Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options	Yes
Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser	Yes Yes
Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word	Yes Yes Yes
Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel	Yes Yes Yes Yes
Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer	Yes Yes Yes Yes Yes
Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player	Yes Yes Yes Yes Yes Yes
Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer	Yes Yes Yes Yes Yes Yes Yes
Languages per project Functionality under WinCC (TIA Portal) 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 Yes Yes
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Languages per project Functionality under WinCC (TIA Portal) 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 Yes Yes
Languages per project Functionality under WinCC (TIA Portal) 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 time-controlled	Yes Yes Yes Yes Yes Yes Yes Yes Yes
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Pointer instruments Yes Analog/digital clock Yes Lists		
Analog/digital clock Yes Lists		Yes
Lists		Yes
	Analog/digital clock	Yes
Number of text lists per project 500	Lists	
	 Number of text lists per project 	500

- Number of entries per text list	500
Number of entries per text list	500
Number of graphics lists per project	500 500
Number of entries per graphics list Archiving	500
Number of archives per device	50
Number of entries per archive	50 000
	Yes
 Message archive Process value archive 	Yes
	res
Archiving methods	Vee
 — Sequential archive — Short-term archive 	Yes
	res
Memory location	N
— 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	No.
• Alarms	Yes
Report (shift log)	Yes
• Hardcopy	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	
Keyboard fonts	Vac
 Keyboard fonts US English 	Yes
Keyboard fonts US English Transfer (upload/download)	
Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP	Yes
Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP USB	Yes Yes
Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet	Yes Yes Yes
 Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet using external storage medium 	Yes Yes
Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet using external storage medium Process coupling	Yes Yes Yes Yes
Keyboard fonts US English Transfer (upload/download) MPI/PROFIBUS DP USB Ethernet using external storage medium Process coupling S7-1200	Yes Yes Yes Yes
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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	483 mm
Height of housing front	337 mm
Mounting cutout, width	465 mm
Mounting cutout, height	319 mm
Overall depth	75 mm
Weights	
Weight (without packaging)	5.6 kg
last modified:	10/7/2021 🖸