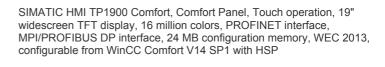
6AV2124-0UC02-0AX1

Data sheet

General information





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 (rated value) Starting current inrush I²t O.5 A²·s Power Active power input, typ. 41 W	
Power Active power input, typ. 41 W	
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 A Hardware clock (real time)	
Hardware clock (real-time) Software clock	
Software clock Yes retentive	o duration typically 6 weeks
	p duration typically 6 weeks
,	
Interfaces	
	witch) + independent port
	185 combined
Number of RS 422 interfaces 0; together v	vith 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	
IRT Yes	
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	
HTMLXMLYesYes	
• HTML Yes	
HTMLXMLYesYes	
HTMLXMLCSSYesYes	

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 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
EAC (formerly Gost-R)	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; 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)	2.22
— For vertical installation, min.	0 °C
— For vertical installation, max.	45 °C
Operation (max. tilt angle)	2.22
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	2.22
— 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	
• min.	-20 °C
• max.	60 °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 liexible Advanced 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 Advanced (TIA Portal) WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	100, VIT OF FRIOR AND HIGHER
Online languages	32
Number of online/runtime languages Project languages	32
Project languages per project	32
Languages per project - The Party No. (TAP Party) - The Party No. (TAP Party) - The Party No. (TAP Party)	32
Functionality under WinCC (TIA Portal)	V
Libraries	Yes
Applications/options	V
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	
— Number of bit messages	6 000
Analog messages	
 Number of analog messages 	200
 S7 alarm number procedure 	Yes
System messages HMI	Yes
System event, more (SIMATIC S7, SINUMERIK, SYSTEM	Yes
SIMOTION,)	00
Number of characters per message	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes

Recipe management	
Number of recipes	500
Data records per recipe	1 000
Entries per data record	2 000
Size of internal recipe memory	4 Mbyte
Recipe memory expandable	Yes
Variables	165
Number of variables per device	4 096
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
• Arrays	Yes
Images	165
Number of configurable images	750
Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image selection by TEC Image number in the PLC	Yes
Image number in the PLC	100
Number of objects per image	600
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	40
 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
· - · - · · · · · · · · · · · · · · · ·	
	Yes
IP camera display	Yes Yes
IP camera displayBar graphs	Yes
IP camera displayBar graphsSlidersPointer instruments	Yes Yes
IP camera displayBar graphsSliders	Yes Yes Yes
 IP camera display Bar graphs Sliders Pointer instruments Analog/digital clock 	Yes Yes Yes
 IP camera display Bar graphs Sliders Pointer instruments Analog/digital clock Lists	Yes Yes Yes Yes
 IP camera display Bar graphs Sliders Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list 	Yes Yes Yes Yes Yes Yes
 IP camera display Bar graphs Sliders Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list Number of graphics lists per project 	Yes Yes Yes Yes Yes 500 500
 IP camera display Bar graphs Sliders Pointer instruments Analog/digital clock Lists Number of text lists per project Number of entries per text list 	Yes Yes Yes Yes Yes Yes 500 500
 IP camera display Bar graphs Sliders Pointer instruments 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 Archiving	Yes Yes Yes Yes Yes Yes 500 500
 IP camera display Bar graphs Sliders Pointer instruments 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 	Yes Yes Yes Yes Yes You Soo Soo Soo Soo Soo
 IP camera display Bar graphs Sliders Pointer instruments 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 Archiving Number of archives per device 	Yes Yes Yes Yes Yes 500 500 500 500

December and in	V
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	Yes
Process coupling	
• \$7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes
SINUMERIK	Yes; With SINUMERIK option package as from WinCC V15 or higher
• SIMOTION	Yes
Allen Bradley (EtherNet/IP) Allen Bradley (DET)	Yes
Allen Bradley (DF1) Mitaribishi (MC TCP/ID)	Yes
Mitsubishi (MC TCP/IP) Mitsubishi (FX)	Yes
Mitsubishi (FX) OMPON (FINA TOP)	Yes
OMRON (FINS TCP) OMBON (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	
Peripherals/Options Printer	Yes
Printer	
Printer SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB
Printer	

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

10/7/2021

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