SIEMENS

Data sheet



SIMATIC HMI TP1900 Comfort INOX Stainless steel front, continuous decorative foil; Degree of protection front IP66K, 19" widescreen TFT display, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, Windows CE 2013; Configurable from WinCC Comfort V14 SP1 with HSP

Figure similar

General information	
Product type designation	TP1900 Comfort INOX
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
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
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	

Tune of augustuselt	DC
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)	1.7 A
Starting current inrush I²t	0.5 A ² ·s
Power	
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
	2; USB 2.0 0
Number of 20 mA interfaces (TTY)	0
Number of 20 mA interfaces (TTY) Number of parallel interfaces	0 0
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces	0 0 0
Number of 20 mA interfaces (TTY) Number of parallel interfaces	0 0
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots	0 0 0 2
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces	0 0 0 2
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED	0 0 0 2 No
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED Number of ports of the integrated switch	0 0 0 2 No
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Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED Number of ports of the integrated switch Protocols PROFINET	0 0 0 2 No 3 2
Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO	0 0 0 2 No 3 2 Yes
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• 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 B, for use in residential areas 	No
Degree and class of protection	
IP (at the front)	IP66K
IP (rear)	IP20
NEMA (front)	
Enclosure Type 4 at the front	No
Enclosure Type 4x at the front	Yes; indoor use only
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	103
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	No
Marine approval	110
Germanischer Lloyd (GL)	No; In application process
American Bureau of Shipping (ABS)	No; Available soon
American Bureau of Shipping (ABS)Bureau Veritas (BV)	No; Available soon
Det Norske Veritas (DNV) Korgan Pogister of Shipping (KPS)	No; Available soon
Korean Register of Shipping (KRS) Lloyde Register of Shipping (LRS)	No; Available soon
Lloyds Register of Shipping (LRS) Nimpon Kajii Kyokaj (Class NK)	No; Available soon
Nippon Kaiji Kyokai (Class NK) Poloki Polostr Statkovy (PRS)	No; Available soon
Polski Rejestr Statkow (PRS) Chinaga Classification Society (CCS)	No; Available soon
Chinese Classification Society (CCS)	No; Available soon
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)	

Facility C.	0.90
— 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.	70 %; 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
	103, VIA OF FRIOR and Higher
Languages	163, VIII OI FIIOI and Ingliei
Languages Online languages	
Languages Online languages • Number of online/runtime languages	32
Languages Online languages Number of online/runtime languages Project languages	32
Languages Online languages Number of online/runtime languages Project languages Languages per project	
Languages Online languages • Number of online/runtime languages Project languages • Languages per project Functionality under WinCC (TIA Portal)	32
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Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options	32 32 Yes
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser	32 Yes Yes
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word	32 Yes Yes Yes Yes
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Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer	32 Yes Yes Yes Yes Yes Yes Yes Ye
Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player	32 Yes Yes Yes Yes Yes Yes Yes Ye
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Online languages Number of online/runtime languages Project languages 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 task-controlled task-controlled Message system Number of alarm classes Bit messages Number of bit messages Analog messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI	32 Yes Yes Yes Yes Yes Yes Yes Ye

Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Recipe management	100
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	163
Number of variables per device	4 096
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	100
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 number in the PLC	Yes
Image objects	
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
IP camera display	Yes
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	
Number of text lists per project	500
Number of entries per text list	500
Number of graphics lists per project	500
Number of entries per graphics list	500
Archiving	

. Number of evaluation was device	50
Number of archives per device	50
Number of entries per archive	50 000
Message archive	Yes
 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	
• S7-1200	Yes
• S7-1500	Yes
• \$7-200	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)	Yes
	Yes
Allen Bradley (DF1)Mitsubishi (MC TCP/IP)	Yes
,	
Mitsubishi (FX) OMPON (FINS TCP)	Yes
OMRON (FINS TCP) OMBON (FINS TCP)	No Yea
OMRON (LINK/Multilink) Medicar (Medicar TCD/ID)	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 	No
Stainless steel	Yes
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	73 mm
Weights	
Weight (without packaging)	7.9 kg

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