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; capacitive
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	
Type of supply voltage	DC

Rated value (DC)	
permissible range, upper limit (DC) 28.8 V	
True	
Current consumption (rated value)	
Starting current inrush IPt D.5 A2-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 eretentive Yes; Back-up duration typically 6 weeks yes ynchronizable Yes Interfaces Number of Industrial Ethernet interfaces 1; RS 422 / 485 combined Number of RS 485 interfaces Number of USB interfaces Number of USB interfaces Number of USB interfaces Number of USB interfaces Number of S2 22 interfaces Number of S2 32 interfaces Number of S2 32 interfaces Number of S2 32 interfaces Number of S2 interfaces Number of Parallel interfaces O Number of Parallel interfaces O Number of Parallel interfaces O	
Processor X86 Memory Yes RAM Yes Memory available for user data 24 Mbyte Type of output No Info LED No Power LED No Error LED No Acoustics No • Buzzer No • Speaker Yes Time of day Clock Yes • Hardware clock (real-time) Yes • Software clock Yes • retentive Yes; Back-up duration typically 6 weeks • synchronizable Yes Interfaces Yes Number of industrial Ethernet interfaces 2; 2 ports (switch) + independent port Number of RS 485 interfaces 1; RS 422 / 485 combined Number of RS 222 interfaces 0; together with RS 485 Number of USB Interfaces 2; USB 2.0 Number of parallel interfaces (TTY) 0 Number of parallel interfaces 0	
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 • synchronizable Yes; Back-up duration typically 6 weeks • synchronizable Yes Interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces Number of PS 232 interfaces Number of SS 312 interfaces Number of SS 312 interfaces Number of USB interfaces Number of USB interfaces Number of DSB interfaces	
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 retentive Yes; Back-up duration typically 6 weeks synchronizable Yes Interfaces Number of Industrial Ethernet interfaces 1; RS 422 / 485 combined Number of RS 422 interfaces Number of RS 232 interfaces Number of S 232 interfaces Number of SUB interfaces Number of USB interfaces Number of USB interfaces Number of parallel interfaces (TTY) Number of parallel interfaces (TTY) Number of parallel interfaces (TTY) Number of parallel interfaces 0	
Flash Yes RAM Yes Memory available for user data 24 Mbyte Type of output Info LED No Power LED No Error LED No Acoustics No • 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 2; 2 ports (switch) + independent port 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 VBB interfaces 2; USB 2.0 Number of parallel interfaces (TTY) 0 Number of parallel interfaces 0	
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Memory available for user data Type of output Info LED Power LED No Error LED No Acoustics Buzzer Speaker Yes Time of day Clock Hardware clock (real-time) Software clock retentive Synchronizable Nesynchronizable Interfaces Number of RS 485 interfaces Number of RS 232 interfaces Number of Su 232 interfaces Number of USB interfaces Number of USB interfaces Number of 20 mA interfaces (TTY) Number of parallel interfaces O Number of parallel interfaces Number of parallel interfaces Number of parallel interfaces Number of parallel interfaces O Number of parallel interfaces	
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Number of RS 485 interfaces1; RS 422 / 485 combinedNumber of RS 422 interfaces0; together with RS 485Number of RS 232 interfaces0Number of USB interfaces2; USB 2.0Number of 20 mA interfaces (TTY)0Number of parallel interfaces0	
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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 USB interfaces2; USB 2.0Number of 20 mA interfaces (TTY)0Number of parallel interfaces0	
Number of 20 mA interfaces (TTY) 0 Number of parallel interfaces 0	
Number of parallel interfaces 0	
Number of SD card slots 2	
With software interfaces No	
Industrial Ethernet	
Industrial Ethernet status LED 3	
Protocols PROFINET Voc	
PROFINET Yes Supports protocol for PROFINET IO	
Supports protocol for PROFINET IO Yes Voc	
IRT Yes	
PROFIBUS Yes	
EtherNet/IP Yes Yes	
MPI Yes	
Protocols (Ethernet)	
• TCP/IP Yes	
• DHCP Yes	
• SNMP Yes	
• DCP Yes	
• LLDP Yes	
WEB characteristics	
• HTTP	
• HTTPS Yes	
• HTML Yes	
• XML Yes	
• CSS Yes	

• Active Y	Voc
Active X InvaScript	Yes Yes
JavaScript	
Java VM Redundanay made	No
Redundancy mode Media redundancy	
— MRP	Yes
Further protocols	165
• CAN	No
MODBUS	Yes
Interrupts/diagnostics/status information	100
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	
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	
Germanischer Lloyd (GL)	No; In application process
American Bureau of Shipping (ABS)	No; Available soon
Bureau Veritas (BV)	No; Available soon
Det Norske Veritas (DNV)	No; Available soon
Korean Register of Shipping (KRS)	No; Available soon
Lloyds Register of Shipping (LRS)	No; Available soon
Nippon Kaiji Kyokai (Class NK)	No; Available soon
Polski Rejestr Statkow (PRS)	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)	
— For vertical installation, min.	0°C
— For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format)	
- Farmer (an angle) portrait format	

At maximum tilt and a min	0.00
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max. Ambient temperature during storage/transportation	35 °C
	00.90
• min.	-20 °C
• max.	60 °C
Relative humidity	- 0.07
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
Languages	
Online languages	
N 1 5 8 1 8 1	32
 Number of online/runtime languages 	32
	32
Number of online/runtime languages Project languages Languages per project	32
Project languages	
Project languages • Languages per project	
Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries	32
Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options	32 Yes
Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries	Yes Yes
Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser	Yes Yes Yes
Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word	Yes Yes
Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser • Pocket Word • Pocket Excel	Yes Yes Yes Yes Yes
Project languages • 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 Yes Yes Yes
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	Yes
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	Yes
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	Yes
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	Yes
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	Yes
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	Yes
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 Message system	Yes
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 Message system • Number of alarm classes	Yes
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 Message system • Number of alarm classes • Bit messages	32 Yes Yes
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 Message system • Number of alarm classes • Bit messages — Number of bit messages	Yes
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 Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages	32 Yes Yes Yes Yes Yes Yes Yes Yes Yes 32 6 000
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 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
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 Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages — Number of analog messages • S7 alarm number procedure	Yes Yes Yes Yes Yes Yes Yes Yes
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 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	Yes Yes Yes Yes Yes Yes Yes Yes
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 — Number of analog messages • S7 alarm number procedure • System messages HMI • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)	Yes
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 Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages • Analog messages • S7 alarm number procedure • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message	Yes Yes Yes Yes Yes Yes Yes Yes
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 Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages • Analog messages • S7 alarm number procedure • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message • Number of process values per message	Yes
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 Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of process values per message Acknowledgment groups	Yes Yes Yes Yes Yes Yes Yes Yes
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 Message system • Number of alarm classes • Bit messages — Number of bit messages • Analog messages • Analog messages • S7 alarm number procedure • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message • Number of process values per message	Yes

a Number of regines	500
Number of recipes Date records per recipe	1 000
Data records per recipe Fatrice per data record	2 000
Entries per data record Size of internal region moment	
Size of internal recipe memory Decipe memory expendeble	4 Mbyte Yes
Recipe memory expandable Variables	res
Number of variables per device	4 096
Number of variables per device 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 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	500
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	50
Number of archives per device	50
Number of entries per archive	50 000
Message archive	Yes
Process value archive Archiving months do	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
• 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)	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	100
Backup/Restore manually	Yes
Backup/Restore manually Backup/Restore automatically	Yes
Simulation	Yes
Device switchover Peripherals/Options	Yes
Peripherals/Options	V
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

Yes	
No	
No	
Yes	
Dimensions	
483 mm	
337 mm	
465 mm	
319 mm	
73 mm	
73 mm	

last modified:

9/7/2023