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Data sheet

SIMATIC HMI TP1900 Comfort Pro for support arm (not expandable, flange top), 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 PRO	
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; Projective-capacitive	
Expansions for operator control of the process		
 Direct keys (touch buttons as S7 input I/O) 	40	
Installation type/mounting		
Mounting	Support arm	
Mounting position	vertical	
Mounting in portrait format possible	No	
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 concumption (rated value)	150
Current consumption (rated value)	1.5 A
Starting current inrush I²t	0.5 A ² ·s
Power	00111
Active power input, typ.	36 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
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
• XML	Yes
• CSS	Yes
Active X	Yes
JavaScript	Yes
• Java VM	No

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Redundancy mode Modia redundancy	
Media redundancy — MRP	Von
	Yes
Further protocols	No
• 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)	IP65
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	No; Available soon
EAC (formerly Gost-R)	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
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 flexible Advanced WinCC Basic (TIA Portal)	No
WinCC Basic (TA Fortal) WinCC Comfort (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Advanced (TIA Portal)	Yes; V14 SP1 HSP and higher
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WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	
 Languages per project 	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
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	Von
time-controlled task-controlled	Yes Yes
	res
Message system • Number of alarm classes	32
Bit messages	02
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, SIMOTION,)	Yes
 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	4.000
Number of variables per device Number of variables per device	4 096
Number of variables per screen Limit values	400 Vos
Limit values Multiplexing	Yes
MultiplexingStructures	Yes Yes
Structures Arrays	Yes
Images	
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

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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 archives per device	50
Number of entries per archive	50 000
Message archive	Yes
Process value archive	Yes
Archiving methods	100
Sequential archive	Yes
— Short-term archive	Yes
— Short-term archive• Memory location	Yes
— Short-term archive• Memory location— Memory card	Yes
Short-term archiveMemory locationMemory cardUSB memory	Yes Yes
 Short-term archive Memory location Memory card USB memory Ethernet 	Yes
 Short-term archive Memory location Memory card USB memory Ethernet Data storage format 	Yes Yes Yes Yes
 Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV 	Yes Yes Yes Yes Yes
 Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV TXT 	Yes Yes Yes Yes Yes Yes
 Short-term archive Memory location Memory card USB memory Ethernet Data storage format CSV TXT RDB 	Yes Yes Yes Yes Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security	Yes Yes Yes Yes Yes Yes Yes Yes Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups	Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of user rights	Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of users	Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes Yes Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of users • Number of users • Password export/import	Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon	Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes Yes Yes Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of users • Number of users • Password export/import	Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon	Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon Logging through printer	Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon Logging through printer • Alarms	Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon Logging through printer • Alarms • Report (shift log)	Yes
- Short-term archive • Memory location - Memory card - USB memory - Ethernet • Data storage format - CSV - TXT - RDB Security • Number of user groups • Number of user rights • Number of users • Password export/import • SIMATIC Logon Logging through printer • Alarms • Report (shift log) • Hardcopy	Yes
- Short-term archive Memory location - Memory card - USB memory - Ethernet Data storage format - CSV - TXT - RDB Security Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file	Yes
- Short-term archive Memory location - Memory card - USB memory - Ethernet Data storage format - CSV - TXT - RDB Security Number of user groups Number of user rights Number of users Password export/import SIMATIC Logon Logging through printer Alarms Report (shift log) Hardcopy Electronic print to file Character sets	Yes

Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
WIPI/PROFIBUS DP USB	Yes
Ethernet Using external storage medium	Yes
using external storage medium Process coupling	Yes
Process coupling • S7-1200	Voc
	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
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	462 mm
Height of housing front	296 mm; Without basic adapter
Overall depth	101 mm; Without basic adapter
Weights	
Weight (without packaging)	7.4 kg
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