## **SIEMENS**

## **Data sheet**



SIMATIC HMI TP900 Comfort INOX Stainless steel front, Glass pane, capacitive touch, Degree of protection front IP69K, 9" widescreen TFT display, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, (Microsoft Support included Security updates discontinued) configurable from WinCC Comfort V15

General information	
Product type designation	TP900 Comfort INOX PCT
Display	
Design of display	TFT
Screen diagonal	9 in
Display width	195 mm
Display height	117 mm
Number of colors	16 777 216
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	800 pixel
Vertical image resolution	480 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	80 000 h
<ul> <li>Backlight dimmable</li> </ul>	Yes; 0-100 %
Control elements	
Keyboard fonts	
Function keys	
<ul> <li>Number of function keys</li> </ul>	0
<ul> <li>Number of function keys with LEDs</li> </ul>	0
<ul> <li>Keys with LED</li> </ul>	No
System keys	No
<ul> <li>Numeric keyboard</li> </ul>	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
<ul> <li>Design as touch screen</li> </ul>	Yes
<ul> <li>Design as multi-touch screen</li> </ul>	No
Monitor keyboard	Yes
Expansions for operator control of the process	
<ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fx	0
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— 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	
	DC
Type of supply voltage	
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)	0.75 A
Starting current inrush I²t	0.5 A <sup>2</sup> ·s
Power	
Active power input, typ.	18 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	Speaker
Buzzer	No
Speaker	Yes
	100
Time of day	
Clock	V.
Hardware clock (real-time)	Yes
Software clock	Yes
• retentive	Yes; Back-up duration typically 6 weeks
<ul> <li>synchronizable</li> </ul>	Yes
Interfaces	
Interfaces Number of industrial Ethernet interfaces	1; 2 ports (switch)
Number of industrial Ethernet interfaces  Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	
Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces	1; RS 422 / 485 combined 0; together with RS 485 0
Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0
Interfaces  Number of industrial Ethernet interfaces  Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole
Interfaces  Number of industrial Ethernet interfaces  Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0
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Interfaces  Number of industrial Ethernet interfaces  Number of RS 485 interfaces  Number of RS 422 interfaces  Number of RS 232 interfaces  Number of USB interfaces  • USB Mini B  Number of 20 mA interfaces (TTY)  Number of other interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0
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• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
<ul> <li>Active X</li> </ul>	Yes
<ul> <li>JavaScript</li> </ul>	Yes
Java VM	No
Redundancy mode	
Media redundancy	V A CME 00 V45
— MRP	Yes; As of WinCC V15
Further protocols	N-
• CAN	No
• MODBUS	Yes
EMC	
Emission of radio interference acc. to EN 55 011	V
Limit class A, for use in industrial areas     Limit class B, for use in residential areas	Yes
Limit class B, for use in residential areas	No
Degree and class of protection	
IP (at the front)	IP66 / IPx6K and IP69 / IPx9K
IP (rear)	IP20
NEMA (front)	No
Enclosure Type 4 at the front	No
Enclosure Type 4x at the front     Findance Type 42 at the front	No No
Enclosure Type 12 at the front	No
Standards, approvals, certificates	V
CE mark	Yes
CULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	No
EAC (formerly Gost-R) Use in hazardous areas	Yes
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
• cULus Class II Division 2	No
• FM Class I Division 2	No
• FM Class II Division 2	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.	50 °C; (55 °C, see entry ID: 64847814)
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 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C

Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	2 000 m
Relative humidity	
Operation, max.	90 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
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	
<ul> <li>STEP 7 Basic (TIA Portal)</li> </ul>	No
<ul> <li>STEP 7 Professional (TIA Portal)</li> </ul>	No
<ul> <li>WinCC flexible Compact</li> </ul>	No
<ul> <li>WinCC flexible Standard</li> </ul>	No
<ul> <li>WinCC flexible Advanced</li> </ul>	No
<ul> <li>WinCC Basic (TIA Portal)</li> </ul>	No
<ul> <li>WinCC Comfort (TIA Portal)</li> </ul>	Yes; As of WinCC V15
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	Yes; As of WinCC V15
<ul> <li>WinCC Professional (TIA Portal)</li> </ul>	Yes; As of WinCC V15
_anguages	
Online languages	
Number of online/runtime languages	32
Project languages	
<ul> <li>Languages per project</li> </ul>	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	Internet Explorer, PDF/Word/Excel Viewer, Sm@rtService, Sm@rtAccess, ProAgent
Web browser	Yes
Pocket Word	Yes; Viewer
Pocket Excel	Yes; Viewer
PDF Viewer	Yes
Media Player	Yes
<ul> <li>SIMATIC WinCC Sm@rtServer</li> </ul>	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	Yes
<ul><li>time-controlled</li></ul>	Yes
task-controlled	Yes
Help system	
Number of characters per info text	70
Message system	
<ul> <li>Number of alarm classes</li> </ul>	32
Bit messages	
<ul> <li>Number of bit messages</li> </ul>	4 000
<ul> <li>Analog messages</li> </ul>	
<ul> <li>Number of analog messages</li> </ul>	200
S7 alarm number procedure	Yes
System messages HMI	Yes
<ul> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> </ul>	Yes
<ul> <li>Number of characters per message</li> </ul>	80
<ul> <li>Number of process values per message</li> </ul>	8
Acknowledgment groups	Yes

Manager	
Message buffer	4.004
— Number of entries	1 024
— Circulating buffer	Yes Yes
<ul><li>retentive</li><li>maintenance-free</li></ul>	Yes
Recipe management	res
Number of recipes	300
Data records per recipe	500
Entries per data record	1 000
Size of internal recipe memory	2 Mbyte
Recipe memory expandable	Yes
Variables	
Number of variables per device	2 048
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	
Number of configurable images	500
<ul> <li>Permanent window/default</li> </ul>	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
<ul> <li>Image selection by PLC</li> </ul>	Yes
Image number in the PLC	Yes
Image objects	
Number of objects per image	400
• Text fields	Yes
• I/O fields	Yes
Graphic I/O fields (graphics list)  Output I/O fields (death list)	Yes
<ul> <li>Symbolic I/O fields (text list)</li> <li>Date/time fields</li> </ul>	Yes Yes
Switches	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
Number of complex objects per screen	20
Alarm view	Yes
Trend view	Yes
• User view	Yes
Status/control	Yes
<ul> <li>Sm@rtClient view</li> </ul>	Yes
Recipe view	Yes
<ul><li>f(x) trend view</li></ul>	Yes
<ul> <li>System diagnostics view</li> </ul>	Yes
Media Player	Yes
HTML browser	Yes
PDF display	Yes
IP camera display	Yes
Bar graphs	Yes
Sliders  Paintenington and a	Yes
Pointer instruments     Apples (digital place):	Yes
Analog/digital clock  Lioto	Yes
Lists  • Number of toyt lists per project	500
<ul><li>Number of text lists per project</li><li>Number of entries per text list</li></ul>	500 500
Number of graphics lists per project	500
- Hambor of grapinoo noto por project	

Number of entries per graphics list	500
Archiving	
Number of archives per device	50
Number of entries per archive	20 000
Message archive	Yes
Process value archive	Yes
Archiving methods	Sequential log, circular log, alarm log, process value archive
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	SD/MMC card, Ethernet, USB memory stick
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	CSV file, readable, e.g. with MS Excel, MS Access
— 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	100,121,111112
Keyboard fonts	US American (English)
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	Yes
• USB	Yes
<ul><li>Ethernet</li></ul>	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
• SIMOTION	Yes
<ul> <li>Allen Bradley (EtherNet/IP)</li> </ul>	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
Accessories	
Further accessories are available	Yes; Service Pack (seal, mounting clips, clamping frame, power supply connector)
Mechanics/material	
Enclosure material (front)	
<ul><li>Plastic</li></ul>	No
<ul> <li>Aluminum</li> </ul>	No
Stainless steel	Yes
Dimensions	
Width of the housing front	274 mm
Height of housing front	190 mm
Mounting cutout, width	251 mm
Mounting cutout, height	166 mm
Overall depth	66 mm
Weights	
Weight (without packaging)	2.9 kg
Weight (with packaging)	3.6 kg

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