SIEMENS

Data sheet



SIMATIC HMI TP900 Comfort INOX Stainless steel front, Continuous decorative film, Degree of protection front IP66K, 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 V11

General information		
Product type designation	TP900 INOX	
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)		
 Horizontal image resolution 	800 pixel	
Vertical image resolution	480 pixel	
Backlighting		
 MTBF backlighting (at 25 °C) 	80 000 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		
Type of supply voltage	DC	

Detect value (DC)	24.1/
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 ² ·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	
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	1; 2 ports (switch)
Namber of industrial Efficilief inferiaces	, , , , , , , , , , , , , , , , , , , ,
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined 0; together with RS 485
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 Number of RS 232 interfaces Number of USB interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0
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
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 1; 5-pole 0
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 parallel interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0
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 parallel interfaces Number of other interfaces Number of SD card slots With software interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0
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 parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2 No
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 parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet Industrial Ethernet status LED	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2 No
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 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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2 No
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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 parallel 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 IRT PROFIBUS	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes; As of WinCC V12 Yes
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Number of RS 485 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B 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 IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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Number of RS 485 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B 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 IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

• XML	Yes
• CSS	Yes
 Active X 	Yes
JavaScript	Yes
• Java VM	No
Redundancy mode	
Media redundancy	
— MRP	Yes; As of WinCC V12
Further protocols	
• CAN	No
MODBUS	Yes
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)	20
Enclosure Type 4x at the front	Yes; indoor use only
	1 Co, Illuoor uoc orily
Standards, approvals, certificates	Voc
CE mark	Yes
CULus	Yes
RCM (formerly C-TICK)	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
 American Bureau of Shipping (ABS) 	No
Bureau Veritas (BV)	No
 Det Norske Veritas (DNV) 	No
 Lloyds Register of Shipping (LRS) 	No
 Nippon Kaiji Kyokai (Class NK) 	No
 Polski Rejestr Statkow (PRS) 	No
Ambient conditions	
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	50 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, min.	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, min.	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
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; from V11
WinCC Advanced (TIA Portal)	Yes; from V11
WinCC Professional (TIA Portal)	Yes; from V11
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 Wince Singitizerver SIMATIC Wince Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
task-controlled	Yes
Help system	
Number of characters per info text	70
Message system	
Number of alarm classes	32
Bit messages	
Number of bit messages	4 000
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
Message indicator Message buffer	
Number of entries	1 024
Circulating buffer	Yes
— retentive	Yes
— ICICITIIVC	160

— maintenance-free	Yes
Recipe management	
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	100
Number of variables per device	2 048
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
• Arrays	Yes
Images	166
Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Pop-up images	Yes
Slide-in images	Yes
Image selection by PLC	Yes
Image selection by FLC Image number in the PLC	Yes
Image objects	100
Number of objects per image	400
Text fields	Yes
• I/O fields	Yes
	Yes
Graphic I/O fields (graphics list) Symbolic I/O fields (toyt list)	Yes
Symbolic I/O fields (text list)Date/time fields	Yes
Switches	Yes
Buttons Craphic display	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects Complex image chiests	Yes
Complex image objects	20
Number of complex objects per screen	20
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 	20 000

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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
	Yes
using external storage medium	Yes
using external storage medium Process coupling	
 using external storage medium Process coupling \$7-1200 	Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 	Yes Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 	Yes Yes Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 	Yes Yes Yes Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! 	Yes Yes Yes Yes Yes Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC 	Yes Yes Yes Yes Yes Yes Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK 	Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SIMOTION 	Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) 	Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) 	Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) 	Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) 	Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server 	Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Server Service tools/configuration aids 	Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually 	Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Server Service tools/configuration aids 	Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
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 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore automatically 	Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore automatically Simulation 	Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover 	Yes Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Printer 	Yes Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
 using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 LOGO! WinAC \$INUMERIK \$IMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options 	Yes Yes Yes Yes Yes Yes Yes; with SINUMERIK option package Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

card	
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	274 mm
Height of housing front	190 mm
Mounting cutout, width	250 mm
Mounting cutout, height	166 mm
Overall depth	65 mm
Weights	
Weight (without packaging)	2.5 kg
Weight (with packaging)	3.1 kg

last modified: 10/7/2021 🖸