6AV2144-8JC10-0AA0

## **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)		
<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		
<ul> <li>Function keys</li> </ul>		
<ul> <li>Number of function keys</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		
Design as touch screen	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	
<ul> <li>Direct keys (touch buttons as S7 input I/O)</li> </ul>	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)	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	
	X86
Processor type	A00
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
<ul><li>Speaker</li></ul>	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	103
	4. 2 north (avritab)
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 industrial Ethernet interfaces  Number of RS 485 interfaces  Number of RS 422 interfaces	1; RS 422 / 485 combined 0; together with RS 485
Number of industrial Ethernet 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 industrial Ethernet interfaces 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 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
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 1; 5-pole 0
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 parallel interfaces	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0
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
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 parallel interfaces  Number of other interfaces  Number of SD card slots	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2
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 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
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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 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	1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 2 No  2 Yes Yes Yes; As of WinCC V12 Yes
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• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
<ul> <li>Active X</li> </ul>	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	V
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)	
<ul> <li>Enclosure Type 4x at the front</li> </ul>	Yes; indoor use only
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	100
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
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	No
<ul><li>Bureau Veritas (BV)</li></ul>	No
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	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.      — At maximum tilt angle, min.	
— At maximum tilt angle, min.	35 °C

Ambient temperature during storage/transportation	
Ambient temperature during storage/transportation	-20 °C
• min.	-20 °C
max.  Relative humidity	60 C
•	90 %; no condensation
Operation, max.  Operating systems.	90 %, no condensation
Operating systems	NI-
proprietary	No
pre-installed operating system	V
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)  WinCG flouible Compact	No No
WinCC flexible Compact     WinCC flexible Standard	No No
WinCC flexible Standard     WinCC flexible Advanced	No No
WinCC Regio (TIA Pertel)	No No
WinCC Basic (TIA Portal)  WinCC Confort (TIA Portal)	No Van fram V44
WinCC Comfort (TIA Portal)  WinCC Advanced (TIA Portal)	Yes; from V11
WinCC Advanced (TIA Portal)     WinCC Professional (TIA Portal)	Yes; from V11
WinCC Professional (TIA Portal)	Yes; from V11
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	00
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
Web browser	Yes
<ul><li>Pocket Word</li></ul>	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	V.
• time-controlled	Yes
• task-controlled	Yes
Message system	00
Number of alarm classes	32
Bit messages	4,000
— Number of bit messages	4 000
Analog messages	000
— Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI	Yes
System event more (SIMATIC ST SIMI IMEDIA	
<ul> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> </ul>	Yes
SIMOTION,)  Number of characters per message	Yes 80
SIMOTION,)  • Number of characters per message  • Number of process values per message	80 8
SIMOTION, )  • Number of characters per message	80

D :	
Recipe management	200
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
<ul> <li>Number of variables per screen</li> </ul>	400
Limit values	Yes
<ul><li>Multiplexing</li></ul>	Yes
Structures	Yes
Arrays	Yes
Images	
<ul> <li>Number of configurable images</li> </ul>	500
<ul> <li>Permanent window/default</li> </ul>	Yes
Global image	Yes
<ul><li>Pop-up images</li></ul>	Yes
<ul> <li>Slide-in images</li> </ul>	Yes
<ul> <li>Image selection by PLC</li> </ul>	Yes
Image number in the PLC	Yes
Image objects	
<ul> <li>Number of objects per image</li> </ul>	400
<ul> <li>Text fields</li> </ul>	Yes
<ul><li>I/O fields</li></ul>	Yes
<ul> <li>Graphic I/O fields (graphics list)</li> </ul>	Yes
<ul> <li>Symbolic I/O fields (text list)</li> </ul>	Yes
<ul> <li>Date/time fields</li> </ul>	Yes
<ul> <li>Switches</li> </ul>	Yes
<ul><li>Buttons</li></ul>	Yes
Graphic display	Yes
• Icons	Yes
<ul> <li>Geometric objects</li> </ul>	Yes
Complex image objects	
<ul> <li>Number of complex objects per screen</li> </ul>	20
<ul> <li>Alarm view</li> </ul>	Yes
<ul><li>Trend view</li></ul>	Yes
<ul> <li>User view</li> </ul>	Yes
<ul> <li>Status/control</li> </ul>	Yes
<ul> <li>Sm@rtClient view</li> </ul>	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 entities per text list     Number of graphics lists per project	500
Number of graphics lists per project     Number of entries per graphics list	500
Archiving	
Number of archives per device	50
- Manipor of archites her action	

<ul><li>Number of entries per archive</li><li>Message archive</li></ul>	
<ul> <li>Message archive</li> </ul>	20 000
-	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
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
WinAC	Yes
SINUMERIK	Yes; with SINUMERIK option package
• SIMOTION	Yes
Allen Bradley (EtherNet/IP)	Yes
Allen Bradley (Etherneeth )     Allen Bradley (DF1)	Yes
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	Yes
OMRON (FINS TCP)	No
OMRON (FINS TCP)     OMRON (LINK/Multilink)	Yes
	Yes
Modicon (Modbus TCP/IP)     Modicon (Modbus)	Yes
Modicon (Modbus)     ODC LIA Client	
OPC UA Client     OPC UA Server	Yes
OPC UA Server  Service tools/configuration aids	Yes
Service tools/configuration aids	Von
Rackup/Destore manually	Yes
Backup/Restore manually     Backup/Restore automatically	VAC
Backup/Restore automatically	Yes
The state of the s	Yes Yes

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
<ul> <li>Stainless steel</li> </ul>	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

3/2/2021

last modified: