6AV2124-0MC01-0AX0

SIEMENS

Data sheet



SIMATIC HMI TP1200 Comfort, Comfort Panel, touch operation, 12" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, configurable from WinCC Comfort V11

Product type designation TP1200 Comfort Display Design of display Screen diagonal 12.1 in Display height 163.2 mm Number of colors 16777 216 Resolution (pixels) • Horizontal image resolution 800 pixel Backlighting • NTBF 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 • alphanumeric keyboard Yes; Onscreen keyboard Touch operation • Design as touch screen Yes; Onscreen keyboard • De Direct LEDs (LEDs as S7 output I/O) — F1FX 0 • Direct keys (keys as S7 input I/O) — F1FX 0 • Direct keys (keys as S7 input I/O) — F1FX 0 • Direct keys (touch buttons as S7 input I/O) — F1FX 0 • Order theys (keys as S7 input I/O) — F1FX 0 • Order theys (keys as S7 input I/O) — F1FX 0 • Direct keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Order keys (touch buttons as S7 input I/O) — F1FX 0 • Orde	General information	
Design of display	Product type designation	TP1200 Comfort
Screen diagonal 12.1 im Display width 261.1 mm Display height 163.2 mm Number of colors 16.777.216	Display	
Display width Display height Display height Number of colors Resolution (pixels) • Horizontal image resolution 1 280 pixel • Vertical image resolution 800 pixel Backlighting • MTBF backlighting (at 25 °C) 80 000 h 80 000 h 9 acklight dimmable Vers; 0-100 % Control elements Keyboard fonts • Function keys — Number of function keys — Number of function keys with LEDs 0 teys with LED No • System keys No • Numeric keyboard 2 alphanumeric keyboard 2 alphanumeric keyboard 2 ves; Onscreen keyboard 3 alphanumeric keyboard 5 Design as touch screen 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) — F1FX 0 Direct keys (touch buttons as S7 input I/O) 40 Installation typo/mounting Mounting in landscape format possible Mounting in Inardscape format possible Mounting in Inardscape format possible Mounting in Inardscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Type of supply voltage Type of supply voltage DC	Design of display	TFT
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Function keys - Number of function keys - Number of function keys with LEDs • Keys with LED • No • System keys • Numeric keyboard • alphanumeric keyboard • alphanumeric keyboard • Design as touch screen Expansions for operator control of the process • DP direct LEDs (LEDs as S7 output I/O) - F1Fx • Direct keys (keys as S7 input I/O) - F1Fx • Direct keys (touch buttons as S7 input I/O) - Installation type/mounting Mounting position Wall mounting/direct mounting Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage	Control elements	
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Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage DC		
maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage DC		
ventilation Supply voltage Type of supply voltage DC		
Type of supply voltage DC	·	35°
	Supply voltage	
Rated value (DC) 24 V	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)	0.85 A
Starting current inrush I2t	0.5 A²·s
Power	
Active power input, typ.	20 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)
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
USB Mini B Number of 20 mA interference (TTV)	1; 5-pole
Number of 20 mA interfaces (TTY) Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	110
Industrial Ethernet status LED	2
 Number of ports of the integrated switch 	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes; As of WinCC V12
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
LLDP WER characteristics	Yes
WEB characteristics • HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
Active X	Yes
JavaScript	Yes

• Java VM	No
Redundancy mode	110
Media redundancy	
— MRP	Yes; As of WinCC V12
Further protocols	100,710 01 11110 0 1 12
• CAN	No
MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes; S7 controller
EMC	Too, or controller
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class A, for use in industrial areas Limit class B, for use in residential areas	No
·	NO
Degree and class of protection	IDOS
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	Voc
Enclosure Type 4 at the front Enclosure Type 4x 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	Yes
Use in hazardous areas	V
ATEX Zone 2ATEX Zone 22	Yes 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	Yes
Marine approval	
Germanischer Lloyd (GL)	Yes; As of product version: 10
American Bureau of Shipping (ABS)	Yes; As of product version: 10
Bureau Veritas (BV)	Yes; As of product version: 10
Det Norske Veritas (DNV)	Yes; As of product version: 10
Lloyds Register of Shipping (LRS)	Yes; As of product version: 10
 Nippon Kaiji Kyokai (Class NK) 	Yes; As of product version: 10
 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; (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
Relative humidity	00.04
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 display (output) 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)	-
	Voc
Libraries	Yes
Applications/options	Von
Web browserPocket Word	Yes Yes
Pocket Excel	Yes
POCKET EXCEI PDF Viewer	Yes
	Yes
Media PlayerSIMATIC WinCC Sm@rtServer	Yes
SIMATIC WINCC SHI@itServer SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	100
• time-controlled	Yes
task-controlled	Yes
Message system	100
Number of alarm classes	32
Bit messages	Yes
Number of bit messages	4 000
Analog messages	Yes
Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI	Yes
System event, more (SIMATIC S7, SINUMERIK,	Yes
SIMOTION,)	
 Number of characters per message 	80
 Number of process values per message 	8
 Acknowledgment groups 	Yes
Message indicator	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	
 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
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	103
Number of objects per image	400
• 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	100
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
• •	Yes
Bar graphsSliders	Yes
Pointer instruments Analog /digital plack	Yes
Analog/digital clock I late	Yes
Lists	F00
Number of text lists per project Number of extrice per text list.	500
Number of graphics lists per project	500
Number of graphics lists per project	500
Number of entries per graphics list	500
Archiving	EQ.
Number of archives per device Number of archives per device	50
Number of entries per archive Massage problem	20 000
Message archive	Yes
Process value archive Archiving months do.	Yes
Archiving methods	V
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	V
— 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 (DF1)	Yes
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	Yes
OMRON (FINS TCP)	No
OMRON (FINS TCP) OMRON (LINK/Multilink)	Yes
	Yes
Modicon (Modbus) Modicon (Modbus)	
Modicon (Modbus) ODC LIA Client	Yes
OPC UA Client OPC UA Server	Yes
OPC UA Server Service tools/configuration aids	Yes
Backup/Restore manually	Yes
	Yes
Backup/Restore automatically Signal Atlanta	
Simulation Device switch over	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	Yes; Up to 2 GB
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	Yes
Stainless steel	No
Dimensions	
Width of the housing front	330 mm
Height of housing front	241 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	65 mm
Weights	••
	2.9 kg
Weight (without packaging) Weight (with packaging)	2.8 kg 3.5 kg

last modified: 5/27/2022 🖸