6AV2124-0MC24-0BX0

Data sheet

SIMATIC HMI TP1200 Comfort Pro for support arm (expandable, round pipe) and Extension Unit, Comfort Panel, touch operation, 12" Widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP



General information	
Product type designation	TP1200 PRO
Display	
Design of display	TFT
Screen diagonal	12.1 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	1 280 pixel
Vertical image resolution	800 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	80 000 h
 Backlight dimmable 	Yes; LED, dimmable
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 consumption (rated value) 1.5 A	
01 11 1 101	
Starting current inrush I²t 0.5 A²·s	
Power	
Active power input, typ. 36 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	
7 1 1 1 1 1 1 1 1 1	
Time of day	
Clock	
Hardware clock (real-time) Yes	
• Software clock Yes	
• retentive Yes; Back-up durati	on 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 con	nbined
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 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 	
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	
• SINIMP YES • DCP 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	
Redundancy mode Media redundancy	

— MRP	Yes
Further protocols	
• CAN	No
MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes; S7 controller
EMC	163, 07 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)	IP65
NEMA (front)	V
Enclosure Type 4 at the front Factorize Type 4 at the front	Yes
Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
CULus Pour (Control of Tipe)	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	00.0/
Operation, max.	90 %; no condensation
Operating systems	Ni-
proprietary	No
pre-installed operating system	Voc. Windows Frehoddod Comment 2040
Windows CE	Yes; Windows Embedded Compact 2013
configuration / header	V
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	Ma
STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal)	No No
STEP 7 Professional (TIA Portal) Win CO flouible Comment	No No
WinCC flexible Compact	No
WinCC flexible Standard	No
WinCC flexible Advanced The Royal Control of the Control	No
WinCC Basic (TIA Portal)	No
WinCC Comfort (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Advanced (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	

Online languages	
Number of online/runtime languages	32
Project languages	<u></u>
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	- 100
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	
 time-controlled 	Yes
task-controlled	Yes
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
SIMOTION,) • Number of characters per message	80
 Number of characters per message Number of process values per message 	8
Acknowledgment groups	Yes
Message indicator	Yes
Recipe management	100
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
· manpioxing	
• Structures	Yes
Structures	Yes
Structures Arrays	Yes
StructuresArraysImages	Yes Yes
 Structures Arrays Images Number of configurable images Permanent window/default Global image 	Yes Yes 500 Yes Yes
 Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images 	Yes Yes 500 Yes Yes Yes Yes
 Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images 	Yes Yes 500 Yes Yes Yes Yes Yes
 Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC 	Yes Yes 500 Yes Yes Yes Yes Yes Yes Yes
 Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image number in the PLC 	Yes Yes 500 Yes Yes Yes Yes Yes
Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image objects	Yes Yes 500 Yes Yes Yes Yes Yes Yes Yes Yes Yes
Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image number in the PLC Image objects Number of objects per image	Yes Yes 500 Yes
 Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields 	Yes Yes 500 Yes
 Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields 	Yes Yes 500 Yes
 Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) 	Yes Yes 500 Yes
 Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image number in the PLC Image objects Number of objects per image Text fields I/O fields 	Yes Yes 500 Yes

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• 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
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
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 Number of users	50
Password export/import	Yes
SIMATIC Logon	Yes
Logging through printer	100
Alarms	Yes
Report (shift log)	Yes
	Yes
Hardcopy Flectropic print to file	
Electronic print to file Character pote	Yes; PDF, HTML
Character sets	
Keyboard fonts	Van
— US English	Yes
	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 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	165
Backup/Restore manually	Yes
Backup/Restore automatically	Yes
Simulation	Yes
Device switchover	Yes
Peripherals/Options	165
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	313 mm
Height of housing front	226 mm; Without basic adapter
Overall depth	101 mm; Without basic adapter
Weights	
Weight (without packaging)	4.5 kg
	10 T 1000 1 C

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