Data sheet 6AV2124-0MC24-0BX0

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	
Starting current inrush I2t	0.5 A ² ·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
Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	Yes
retentive symphronizable	Yes; Back-up duration 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 combined
Number of RS 422 interfaces Number of RS 232 interfaces	0; together with RS 485
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 	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	V
• TCP/IP	Yes
DHCPSNMP	Yes Yes
• SNMP • 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	Ven
— MRP	Yes
Further protocols • CAN	No
MODBUS	Yes
Interrupts/diagnostics/status information	100
interrupts/diagnostics/status information	

Diagnoses	
Diagnostic information readable	Yes; S7 controller
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)	IP65
IP (rear)	IP65
NEMA (front)	
Enclosure Type 4 at the front	Yes
Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
CULus PCM (formark) C. TICK)	Yes Yes
RCM (formerly C-TICK) KC approval	No; Available soon
EAC (formerly Gost-R)	No; Available soon
Ambient conditions	110, 7144114510 00011
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	-20 °C
● min. ● max.	-20 °C
Relative humidity	00 C
Operation, max.	90 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes; Windows Embedded Compact 2013
configuration / header	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	
i 100000 value display (output)	Yes
Process value default (input) possible	Yes
Process value default (input) possible Recipe management	
Process value default (input) possible Recipe management Configuration software	Yes Yes
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal)	Yes Yes
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal)	Yes Yes No No
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact	Yes Yes No No
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard	Yes Yes No No No No No
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced	Yes Yes No No No No No No
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal)	Yes Yes Yes No No No No No No No No
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal)	Yes Yes Yes No No No No No No No No Yes; V14 SP1 HSP and higher
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal)	Yes Yes Yes No No No No No No No No
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal)	Yes Yes Yes No No No No No No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal)	Yes Yes Yes No No No No No No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal)	Yes Yes Yes No No No No No No No No Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal)	Yes Yes No No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Process value default (input) possible Recipe management Configuration software STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal)	Yes Yes No No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages Online languages • Number of online/runtime languages Project languages	Yes Yes No No No No No No No No Yes; V14 SP1 HSP and higher
Process value default (input) possible Recipe management Configuration software STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages per project	Yes Yes No No No No No No No No Yes; V14 SP1 HSP and higher
Process value default (input) possible Recipe management Configuration software STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal)	Yes Yes No No No No No No No No Yes; V14 SP1 HSP and higher
Process value default (input) possible Recipe management Configuration software STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) WinCC Professional (TIA Portal) Tanguages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal)	Yes Yes No No No No No No No No Yes; V14 SP1 HSP and higher

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	Pocket Word Pocket Event	Yes
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SMATIC WinCC Audit		
Number of Visual Basic Scripts Yes Task planner		
Task planner		
• Ime-controlled Yes		Yes
elask-controlled Yes		v.
Number of alarm classes 32		
		Yes
Bit messages		22
		32
		4 000
— Number of analog messages 200 • S7 alam number procedure Yes • System messages HMI Yes • System revent, 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 Yes • Message indicator 500 • Entries per data record 1 000 • Size of internal recipe memory 2 000 • Entries per data record 1 000 • Size of internal recipe memory vapandable Yes • Variables • Number of variables per device 2 048 • Number of variables per device 2 048 • Number of variables per screen 400 • Limit values Yes • Multiplexing Yes • Structures Yes • Arrays Yes • Number of configurable images 500 • Permanent window/default Yes • Slide-in images Yes </td <td></td> <td>4 000</td>		4 000
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Number of characters per message 80 Number of process values per message 8 Acknowledgment groups Yes Message indicator Yes Recipe management		163
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Message indicator		
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Number of variables per screen		
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Structures	 Multiplexing 	Yes
Number of configurable images 500		Yes
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 Number of complex objects per screen Alarm view Trend view User view Status/control 20 Yes Yes Status/control Yes 		Yes
 Alarm view Trend view User view Status/control Yes Yes Yes 		
 Trend view User view Status/control Yes Yes 		
User viewStatus/controlYes		
• Status/control Yes		
Sm@rtClient view 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	=0
Number of archives per device	50
Number of entries per archive	20 000
Message archive	Yes
Process value archive Analyticing as attacks.	Yes
Archiving methods Cognitive archive	Voo
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	V
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	Vaa
— CSV — TXT	Yes
— RDB	Yes Yes
Security	Tes
Number of user groups	50
Number of user gloups Number of user rights	32
Number of users	50
Password export/import	Yes
• SIMATIC Logon	Yes
Logging through printer	100
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	V
• \$7-1200	Yes
• S7-1500	Yes
• \$7-200	Yes
• \$7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes
SINUMERIK SINOTION	Yes; With SINUMERIK option package as from WinCC V15 or higher
SIMOTION Allow Products (Ethornhot/IP)	Yes
Allen Bradley (EtherNet/IP) Allen Bradley (PE4)	Yes
Allen Bradley (DF1) Mitauhiahi (MC TCP/IP)	Yes
Mitsubishi (MC TCP/IP)	Yes Yes
Mitsubishi (FX)	

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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	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
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