6AV2124-0MC24-0AB0

Data sheet



SIMATIC HMI TP1200 Comfort Pro Support arm, neutral front, 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	SIMATIC HMI TP1200 Comfort 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	
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 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
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	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of USB interfaces	2; USB 2.0
Number of SD card slots	2
With software interfaces	No No
Industrial Ethernet	INO
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)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTP • HTTPS	Yes Yes
• HTTPS	Yes
HTTPS HTML	Yes Yes
HTTPSHTMLXML	Yes Yes Yes
HTTPSHTMLXMLCSS	Yes Yes Yes Yes
 HTTPS HTML XML CSS Active X 	Yes Yes Yes Yes Yes
 HTTPS HTML XML CSS Active X JavaScript 	Yes Yes Yes Yes Yes Yes
 HTTPS HTML XML CSS Active X JavaScript Java VM 	Yes Yes Yes Yes Yes
 HTTPS HTML XML CSS Active X JavaScript Java VM Redundancy mode 	Yes Yes Yes Yes Yes Yes
 HTTPS HTML XML CSS Active X JavaScript Java VM Redundancy mode Media redundancy 	Yes Yes Yes Yes Yes Yes Yes No
 HTTPS HTML XML CSS Active X JavaScript Java VM Redundancy mode Media redundancy MRP 	Yes Yes Yes Yes Yes Yes
 HTTPS HTML XML CSS Active X JavaScript Java VM Redundancy mode Media redundancy — MRP Further protocols 	Yes Yes Yes Yes Yes Yes Yes Yes Yes No
 HTTPS HTML XML CSS Active X JavaScript Java VM Redundancy mode Media redundancy — MRP Further protocols CAN 	Yes Yes Yes Yes Yes Yes Yes Yes No
 HTTPS HTML XML CSS Active X JavaScript Java VM Redundancy mode Media redundancy — MRP Further protocols CAN MODBUS 	Yes Yes Yes Yes Yes Yes Yes Yes Yes No
 HTTPS HTML XML CSS Active X JavaScript Java VM Redundancy mode Media redundancy — MRP Further protocols CAN 	Yes Yes Yes Yes Yes Yes Yes Yes No
 HTTPS HTML XML CSS Active X JavaScript Java VM Redundancy mode Media redundancy — MRP Further protocols CAN MODBUS 	Yes Yes Yes Yes Yes Yes Yes Yes No
 HTTPS HTML XML CSS Active X JavaScript Java VM Redundancy mode Media redundancy — MRP Further protocols CAN MODBUS Interrupts/diagnostics/status information 	Yes Yes Yes Yes Yes Yes Yes Yes No

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	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	00.00
• min.	-20 °C 60 °C
• max.	60 C
Relative humidity • Operation, max.	90 %; no condensation
Operating systems	90 %, no condensation
proprietary	No
pre-installed operating system	INC
 Windows CF 	Yes: Windows Embedded Compact 2013
Windows CE configuration / header	Yes; Windows Embedded Compact 2013
configuration / header	
configuration / header Message indicator	Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment)	Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output)	Yes Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible	Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management	Yes Yes Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible	Yes Yes Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal)	Yes Yes Yes Yes Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software	Yes Yes Yes Yes Yes Yes No
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal)	Yes Yes Yes Yes Yes Yes No No
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact	Yes Yes Yes Yes Yes Yes No No No
configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes Yes Yes No No No No
configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes Yes Yes No No No No No No
configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes Yes No No No No No No No
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes Yes You No Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes Yes Yes No No No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes Yes Yes No No No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes Yes Yes No No No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes Yes No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
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Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes No No No No No No No So Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Incompact • WinCC Advanced (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages • Number of online/runtime languages Project languages • Languages per project	Yes Yes Yes Yes Yes No No No No No No No So Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Yes Yes Yes No No No No No No No So Yes; V14 SP1 HSP and higher
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) 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 Invince (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages • Number of online/runtime languages Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries	Yes Yes Yes Yes Yes No No No No No No No So Yes; V14 SP1 HSP and higher

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 Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Mbyte 	
 Data records per recipe Entries per data record Size of internal recipe memory Mbyte 	
 Entries per data record Size of internal recipe memory 2 Mbyte 	
• 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	
• 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	
Number of complex objects per screen 20	

• 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 Archiving	
Number of archives per device	50
Number of arctives per device Number of entries per archive	20 000
Message archive	Yes
Process value archive	Yes
	165
Archiving methods Sequential archive	Yes
— Sequential archive	
— 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	
• \$7-1200	Yes
• S7-1500	Yes
• \$7-1500 • \$7-200	Yes
• \$7-300/400	Yes
LOGO!WinAC	Yes Yes
	Y OP

• 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	
 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 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	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)	4.9 kg

last modified: 3/2/2021 🖸