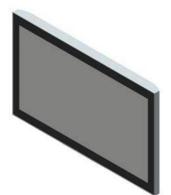
SIEMENS

Data sheet

6AV2124-0XC24-1AB0



SIMATIC HMI TP2200 Comfort Pro, pedestal, neutral front, Comfort Panel, touch operation, 22" widescreen TFT display 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP

Product type designationT2200 Confort PRODisplayTFTDesign of displayTFTScreen diagonal21.5 in inDisplay height267.3 mmDisplay height267.3 mmNumber of colors18207 pxelResolution (pixels)1920 pxel- Horizontal image resolution1920 pxel- Horizontal image resolution1920 pxel- Backlighting (at 25 °C)30 000 h- Backlight dimabele96 000 h- Stacklight dimabele96 000 h- Number of function keys0- System keysNo- System keysYes; Onscreen keyboard- Backlight screenYes; Onscreen keyboard- Border JohnYes; Onscreen keyboard- Border JohnYes; Onscreen keyboard- System keysYes; Onscreen keyboard- Border JohnYes; Onscreen keyboard- Border John </th <th>General information</th> <th></th>	General information	
Design of display TFT Screen diagonal 21.5 in Screen diagonal 21.5 in Display width 475.2 mm Display height 267.3 mm Number of colors 1977.216 Resolution (pixels) 1920 pixel • Horizontal image resolution 1 920 pixel • Vartical image resolution 1 920 pixel • Statisting (at 25 °C) 30 000 h • Backlighting (at 25 °C) 30 000 h • Backlight dimmable Yes; 0-100 % Control elements Vertical image resolution keys • Function keys 0 • Number of function keys 0 • Number of function keys 0 • System keys No • System keys No • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • Diselin as buch screen Yes; Onscreen keyboard • Direct keys (buch butons as S7 input I/O) 40 Installation type/mounting Yes Mounting in landscape formal possible Yes	Product type designation	TP2200 Comfort PRO
Screen diagonal 21.5 in Display width 475.2 mm Display height 267.3 mm Number of colors 16 777 216 Resolution (pixels) 1920 pixel • Vertical image resolution 1 920 pixel • Writh Image resolution 1 920 pixel • Vertical image resolution 1 920 pixel • Writh Image resolution 1 920 pixel • Vertical image resolution 1 920 pixel • Backlighting (at 25 °C) 30 000 h • Backlighting (at 25 °C) 90 000 h • Backlighting (at 25 °C) 0 0 • Number of function keys 0 • Number of function keys 0 • Numeir (keybaard Yes; Onscreen keybaard • System keys No • Design as touch sc	Display	
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• Horizontal image resolution1 920 pixel• Vertical image resolution1 080 pixelBacklighting• MTBF backlight glat 25 °C)30 000 h• Backlight dimmableYes; 0-100 %Control elementsKeyboard fonts• Function keys0• Function keys0• Number of function keys0• Keys with LEDNo• System keys0• Numeric keyboardYes; Onscreen keyboard• alphanumeric keyboardYes; Onscreen keyboard• alphanumeric keyboardYes; Onscreen keyboard• Direct keys (touch buttors as S7 input I/O)40Installation type/mountingPedestalMounting in portrait format possibleNoMounting in portrait format possibleYesMounting in portrait format possibleYesMounting in portrait format possibleSo*Supply voltageDCRated value (DC)24 Vpermissible range, uoper limit (DC)19.2 Vpermissible range, uoper limit (DC)28.8 VImput currentImput current	Number of colors	16 777 216
• Vertical image resolution1 080 pixelBacklighting1Backlighting (at 25 °C)30 000 h• Backlight dimmableYes; 0-100 %Control elementsYes; 0-100 %Control elementsVes; 0-100 %Exploard forts0• Function keys0- Number of function keys0• Number of function keys0• System keysNo• Numeric keyboardYes; Onscreen keyboard• System keysYes; Onscreen keyboard• Direck keyboardYes; Projective-capacitive• Delign as touch screenYes; Projective-capacitive• Direck keys (touch butons as S7 input I/O)40Installation type/mountingPedestalMounting in portiait format possibleNoMounting in landscape format possibleYesMounting in landscape format possibleDireck elementsSupply voltageDCRated value (DC)20 Vpermissible range, lower limit (DC)30 Vpermissible range, uper limit (DC)30 Vpermissible range, uper limit (DC)30 Vpermissible range, uper limit (DC)30 VInput current20 VInput current20 V	Resolution (pixels)	
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MTBF backlighting (at 25 °C)30 000 hBacklight dimmableYes; 0-100 %Control elementsKeyboard fonts	 Vertical image resolution 	1 080 pixel
Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts Function keys 0 Number of function keys 0 Keys with LED No System keys No Numeric keyboard Yes; Onscreen keyboard alphanumeric keyboard Yes; Onscreen keyboard alphanumeric keyboard Yes; Projective-capacitive Expansions for operator control of the process Yes; Projective-capacitive Expansions for operator control of the process Yes; Projective-capacitive Ounting position Yesical Mounting in portrait format possible No Mounting in portrait format possible Yes maximum permissible angle of inclination without external vertical Soft Supply voltage CC Rated value (DC) 24 V permissible range, upper limit (DC) 24 V permissible range, upper limit (DC) 28.8 V	Backlighting	
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• Function keys 0 Number of function keys 0 • Keys with LED No • System keys No • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • Design as touch screen Yes; Projective-capacitive • Design as touch screen Yes; Projective-capacitive • Direct keys (touch buttons as S7 input I/O) 40 Installation type/mounting Pedestal Mounting noprirait format possible Vertical Mounting in landscape format possible Yes Mounting in landscape format possible Yes Mounting of supply voltage DC Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, lower limit (DC) 28.8 V	Control elements	
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• System keys No • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • Design as touch screen Yes; Projective-capacitive • Design as touch screen Yes; Projective-capacitive • Direct keys (touch buttons as S7 input I/O) 40 Installation type/mounting Pedestal Mounting position vertical Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external vertifical 35° Supply voltage DC Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	 — Number of function keys 	0
• Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard Touch operation Yes; Projective-capacitive • Design as touch screen Yes; Projective-capacitive Expansions for operator control of the process 40 • Direct keys (touch buttons as S7 input I/O) 40 Installation type/mounting Pedestal Mounting position vertical Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external vertilation 35° Supply voltage DC Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Keys with LED	No
• alphanumeric keyboard Yes; Onscreen keyboard Touch operation Yes; Projective-capacitive • 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 Pedestal Mounting position vertical Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 35° Supply voltage DC Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	System keys	No
Touch operation Yes; Projective-capacitive • 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 Pedestal Mounting position vertical Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 35° 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 Input current	Numeric keyboard	Yes; Onscreen keyboard
• Design as touch screen Yes; Projective-capacitive Expansions for operator control of the process 40 • Direct keys (touch buttons as S7 input I/O) 40 Installation type/mounting Pedestal Mounting position vertical Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 35° 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 Input current	 alphanumeric keyboard 	Yes; Onscreen keyboard
Expansions for operator control of the process 40 Installation type/mounting 40 Mounting Pedestal Mounting position vertical Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 35° 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 Input current	Touch operation	
	Design as touch screen	Yes; Projective-capacitive
Installation type/mounting Pedestal Mounting position vertical Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 35° 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 35°	Expansions for operator control of the process	
Mounting Pedestal Mounting position vertical Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 35° Supply voltage DC Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	 Direct keys (touch buttons as S7 input I/O) 	40
Mounting position vertical Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 35° Supply voltage DC Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Installation type/mounting	
Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 35° Supply voltage DC Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Mounting	Pedestal
Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation 35° 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 Input current	Mounting position	vertical
maximum permissible angle of inclination without external ventilation 35° Supply voltage DC 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	Mounting in portrait format possible	No
ventilation Image: Constraint of the second of the secon	Mounting in landscape format possible	Yes
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		35°
Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Supply voltage	
permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V	Type of supply voltage	DC
permissible range, upper limit (DC) 28.8 V Input current	Rated value (DC)	24 V
Input current	permissible range, lower limit (DC)	19.2 V
	permissible range, upper limit (DC)	28.8 V
Current consumption (rated value) 1.8 A	Input current	
	Current consumption (rated value)	1.8 A

Starting current inrush I ² t	0.5 A ² ·s
Power	
	44 W
Active power input, typ.	44 VV
Processor	X86
Processor type	80
Memory	Vac
Flash	Yes
RAM Memory evollable for year data	Yes 24 Mbute
Memory available for user data Type of output	24 Mbyte
Info LED	No
Power LED	No
Error LED	No
Acoustics	NO
Buzzer	No
	Yes
• Speaker	
Time of day Clock	
Hardware clock (real-time)	Yes
Hardware clock (real-time) Software clock	Yes
sonware clock eretentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
• synchronizable	100
	2: 2 norte (quitab) + independent part
Number of industrial Ethernet interfaces Number of RS 485 interfaces	2; 2 ports (switch) + independent port
	1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of RS 232 interfaces Number of USB interfaces	0
	2; USB 2.0 0
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	
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
• HTTPS	Yes
• HTML	Yes
	Yes
• XML	
• XML • CSS	Yes
	Yes Yes
• CSS	
• CSS • Active X	Yes
• CSS • Active X • JavaScript	Yes Yes

— MRP	Yes
Further protocols	
• CAN	No
MODBUS	Yes
Interrupts/diagnostics/status information	100
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	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	
• 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)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	No
STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal)	No
STEP 7 Professional (TIA Portal) WinCC flexible Compact	No
WinCC flexible Compact WinCC flexible Standard	No
WinCC flexible Standard WinCC flexible Advanced	No
	No
 WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) 	No Yes; V14 SP1 HSP and higher
WINCE Comfort (TA Portal) WinCE Advanced (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Advanced (TA Ponal) WinCC Professional (TIA Pontal)	Yes; V14 SP1 HSP and higher
Languages	
Online languages	
Omme languages	

Number of online/runtime languages	32
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	
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	6 000
 Analog messages 	
 — Number of analog messages 	200
 S7 alarm number procedure 	Yes
 System messages HMI 	Yes
 System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) 	Yes
 Number of characters per message 	80
 Number of process values per message 	8
 Acknowledgment groups 	Yes
Message indicator	Yes
Recipe management	
Number of recipes	500
 Data records per recipe 	1 000
Entries per data record	2 000
Size of internal recipe memory	4 Mbyte
Recipe memory expandable	Yes
Variables	4.000
Number of variables per device	4 096
Number of variables per screen	400
Limit values Multiplexing	Yes Yes
Multiplexing Structures	Yes
Arrays	Yes
Images	
Number of configurable images	750
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	600
• 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

• Craphia diaplay	Yes
Graphic display	Yes
Icons Coemetrie objecto	Yes
Geometric objects	
Complex image objects	40
Number of complex objects per screen	
Alarm view	Yes
Trend view	Yes
User view	Yes
Status/control	Yes
Sm@rtClient view	
Recipe view	Yes
• f(x) trend view	Yes
System diagnostics view	Yes
Media Player	Yes
HTML browser	
PDF display	Yes
IP camera display	Yes
Bar graphs	Yes
Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	500
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	50 000
Message archive	Yes
Process value archive	Yes
Archiving methods	N.
— 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 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	527 mm
Height of housing front	330 mm; Without basic adapter
Overall depth	101 mm; Without basic adapter
Weights	
Weight (without packaging)	8.5 kg

last modified:

3/2/2021 🖸