Data sheet 6AV2124-0XC24-0AX0

SIMATIC HMI TP2200 Comfort Pro, for support arm (not expandable, flange on top), 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



General information	General information		
Product type designation	TP2200 Comfort PRO		
Display			
Design of display	TFT		
Screen diagonal	21.5 in		
Display width	475.2 mm		
Display height	267.3 mm		
Number of colors	16 777 216		
Resolution (pixels)			
 Horizontal image resolution 	1 920 pixel		
Vertical image resolution	1 080 pixel		
Backlighting			
 MTBF backlighting (at 25 °C) 	30 000 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		
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		
Mounting in landscape format possible	Yes		
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			

Owner to a second secon	40.4
Current consumption (rated value)	1.8 A
Starting current inrush I²t	0.5 A ² ·s
Power	
Active power input, typ.	44 W
Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	24 Mbyte
Type of output	
Info LED	No
Power LED	No 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 RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
Number of 20 mA interfaces (TTY)	0
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 Ethat Not VID	Yes
EtherNet/IP MPI	Yes
Protocols (Ethernet)	Yes
TCP/IP	Yes
DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	160
HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
• Active X	Yes
JavaScript	Yes
Java VM	No
Redundancy mode	
Housing mode	

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Media redundancy	V
— MRP	Yes
Further protocols	
• CAN	No
• MODBUS	Yes
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	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	00 /0, 110 00.1100.1100.11
proprietary	No
pre-installed operating system	110
Windows CE	Yes; Windows Embedded Compact 2013
configuration / header	1 65, Williams Embedaed Compact 2015
	Voc
Message indicator Alarm system (incl. buffer and acknowledgment)	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 No
STEP 7 Professional (TIA Portal) WinCG flexible Compact	No No
WinCC flexible Compact WinCC flexible Charden	No No
WinCC flexible Standard	No
WinCC flexible Advanced	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	
Online languages	32
Number of online/runtime languages Project languages	SZ
Project languages • Languages per project	32
Functionality under WinCC (TIA Portal)	32
	V
Libraries	Yes
Applications/options	
Web browser	Yes
Pocket Word	Yes
Pocket Excel PDF Manuar	Yes
PDF Viewer Madia Player	Yes
Media Player CIMATIC Wind Control	Yes
SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit	Yes
SIMATIC WinCC Audit Number of Visual Regio Scripts	Yes Yes
Number of Visual Basic Scripts	Tes
Task planner	Voc
time-controlled task-controlled	Yes Yes
Help system	160
	320
Number of characters per info text Message system	VEV
Number of alarm classes	32
Number of alarm classes Bit messages	V2
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,	Yes
SIMOTION,)	
 Number of characters per message 	80
 Number of process values per message 	8
 Acknowledgment groups 	Yes
Message indicator	Yes
Message buffer	
Number of entries	1 024
— Circulating buffer	Yes
— retentive	Yes
— maintenance-free	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	
Number of variables per device	4 096
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	770
Number of configurable images	750
Permanent window/default Clabeling and	Yes
Global image Para un image Control image Co	Yes
Pop-up images	Yes
Slide-in images Image calculation by RLC	Yes
Image selection by PLC Image a number in the 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
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	
Number of complex objects per screen	40
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	165
Number of text lists per project	500
	500
Number of entries per text listNumber of graphics lists per project	500
	500
Number of entries per graphics list Archiving	300
Number of archives per device	50
·	50 000
Number of entries per archive	Yes
Message archive Process value archive	Yes
	tes
Archiving methods	V
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	Voc
— 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

Yes
Yes
Yes
Yes
Yes
165
Yes
Yes
Yes
Yes
Yes
Yes
Yes; With SINUMERIK option package as from WinCC V15 or higher
Yes
No
Yes
Yes
Yes
Yes
Yes
Yes
Yes; Up to 128 MB
Yes; Up to 2 GB
No
Yes
Yes; Up to 16 GB
Yes; Up to 8 GB
Yes
No
Yes
No
527 mm
330 mm; Without basic adapter
101 mm; Without basic adapter

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