SIEMENS

Data sheet



SIMATIC HMI TP1500 Comfort Outdoor, Comfort Panel, Touch operation, 15" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0 (Microsoft Support included Security updates discontinued) configurable from WinCC Comfort V13 SP1, HSP

General information	
Product type designation	TP1500 Comfort Outdoor
Display	
Design of display	TFT, bonded, daylight-readable
Screen diagonal	15.4 in
Display width	331.2 mm
Display height	207 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) 	50 000 h
Backlight dimmable	Yes; LED, can be dimmed manually or automatically
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; analog, resistive
Expansions for operator control of the process	
 DP direct LEDs (LEDs as S7 output I/O) 	
— F1Fx	0
 Direct keys (keys as S7 input I/O) 	
— F1Fх	0
Direct keys (touch buttons as S7 input I/O)	40
Installation type/mounting	
Mounting position	vertical
Mounting in portrait format possible	Yes
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	20.0 V
	1.3 A
Current consumption (rated value)	
Starting current inrush I²t	0.5 A²·s
Power	
Active power input, typ.	32 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 No
Acoustics	
Buzzer	No
• Speaker	Yes
Time of day	100
Clock	
	Vee
Hardware clock (real-time)	Yes
Software clock	No
• retentive	Yes; Back-up duration typically 6 weeks
	Yes
synchronizable	100
Interfaces	
Interfaces Number of industrial Ethernet interfaces	2
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces	
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces	2 1; RS 422 / 485 combined 1
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces	2 1; RS 422 / 485 combined 1 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces	2 1; RS 422 / 485 combined 1 0 2; USB 2.0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B	2 1; RS 422 / 485 combined 1 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY)	2 1; RS 422 / 485 combined 1 0 2; USB 2.0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY)	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No
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Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 2 No
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
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Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 No Yes Yes Yes; WinCC V13 SP1 HSP or higher Yes Yes
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Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP • SNMP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Interfaces Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots With software interfaces Industrial Ethernet • Industrial Ethernet status LED • Number of ports of the integrated switch Protocols PROFINET Supports protocol for PROFINET IO IRT PROFIBUS EtherNet/IP MPI Protocols (Ethernet) • TCP/IP • DHCP	2 1; RS 422 / 485 combined 1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 Yes

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WEB characteristics	Voo
• HTTP	Yes
• HTTPS	No
• HTML	Yes
• XML	No
• CSS	Yes
 Active X 	No
JavaScript	Yes
Java VM	No
Redundancy mode	
Media redundancy	
— MRP	Yes; WinCC V13 SP1 HSP or higher
Further protocols	
• CAN	No
MODBUS	Yes
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)	IP66
IP (rear)	IP20
NEMA (front)	
Enclosure Type 4 at the front	Yes
Enclosure Type 4x at the front Enclosure Type 4x at the front	Yes
Standards, approvals, certificates	103
	Vec
CE mark	Yes
CULus PCM (formorth) C TICK)	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Use in hazardous areas	Very For incorpition on device retire plate
• ATEX Zone 2	Yes; For inscription on device rating plate
• ATEX Zone 22	Yes; For inscription on device rating plate
• IECEx Zone 2	Yes; For inscription on device rating plate
• IECEx Zone 22	Yes; For inscription on device rating plate
• cULus Class I Zone 1	No
 cULus Class I Zone 2, Division 2 	Yes; For inscription on device rating plate
FM Class I Division 2	Yes; For inscription on device rating plate
Marine approval	
Germanischer Lloyd (GL)	Yes
 American Bureau of Shipping (ABS) 	Yes
Bureau Veritas (BV)	Yes; Available soon
 Det Norske Veritas (DNV) 	Yes
 Korean Register of Shipping (KRS) 	No; Available soon
 Lloyds Register of Shipping (LRS) 	Yes
 Nippon Kaiji Kyokai (Class NK) 	Yes; Available soon
 Polski Rejestr Statkow (PRS) 	No
 Chinese Classification Society (CCS) 	Yes; Available soon
 Compass working clearance 	5 m
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	Yes; Powder-coated, UV resistant
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	-30 °C
— For vertical installation, max.	60 °C; (55 °C, see entry ID: 64847814)
Operation (max. tilt angle)	
	20.00
 At maximum tilt angle, min. 	-30 °C

	TO 00
— At maximum tilt angle, min.	50 °C
Operation (vertical installation, portrait format)	
For vertical installation, min.	-30 °C
— For vertical installation, max.	50 °C
Operation (max. tilt angle, portrait format)	
 At maximum tilt angle, min. 	-30 °C
— At maximum tilt angle, min.	45 °C
Ambient temperature during storage/transportation	
• min.	-30 °C
• max.	70 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	3 000 m; Depending on the operating temperature
Relative humidity	
 Operation, max. 	90 %; no condensation
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
configuration / header	133
	Von
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	
STEP 7 Basic (TIA Portal)	No
 STEP 7 Professional (TIA Portal) 	No
 WinCC flexible Compact 	No
 WinCC flexible Standard 	No
 WinCC flexible Advanced 	No
 WinCC Basic (TIA Portal) 	No
WinCC Basic (TIA Portal)WinCC Comfort (TIA Portal)	No Yes; WinCC V13 SP1 Update 7 + HSP or higher
 WinCC Comfort (TIA Portal) 	Yes; WinCC V13 SP1 Update 7 + HSP or higher
WinCC Comfort (TIA Portal)WinCC Advanced (TIA Portal)WinCC Professional (TIA Portal)	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages per project	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher
WinCC Comfort (TIA Portal) WinCC Advanced (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; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye
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WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal) Languages Online languages Number of online/runtime languages Project languages Languages Languages (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye
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 Languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled task-controlled Message system	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye
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 Languages Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye
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 Languages per project Functionality under WinCC (TIA Portal) Libraries Applications/options Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts Task planner time-controlled task-controlled Message system Number of alarm classes Bit messages	Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher Yes; WinCC V13 SP1 Update 7 + HSP or higher 32 Yes Yes Yes Yes Yes Yes Yes Ye

North an of an along an annual	000
— Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI (SINATIO 67, SIN II MERIIC	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	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
Structures	Yes
Arrays	Yes
Images	
Number of configurable images	500
Permanent window/default	Yes
Global image	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	100
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
IP camera display	Yes; Webcam type see FAQs
	Yes
Bar graphsSliders	Yes
Pointer instruments Analog (digital alaek)	Yes
Analog/digital clock Lists	Yes
	500
Number of text lists per project Number of entries per text list	500
 Number of entries per text list 	300

 Number of graphics lists per project 	500
Number of graphics lists per project Number of entries per graphics list	500
Archiving	300
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
Archiving methods	163
Sequential archive	Yes
Sequential arctive — Short-term archive	Yes
Memory location	165
	Yes
— Memory card	Yes
USB memory Ethernet	Yes
	tes
Data storage format	Voc
— CSV	Yes
— TXT	Yes
— RDB	Yes
Security	50
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; Backup/restore
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
• 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
1	

Backup/Restore automatically	Yes
 Simulation 	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes; e.g. USB RFID reader, see FAQ entry ID: 99808171
SIMATIC IPC USB Flashdrive (USB stick)	Yes
SIMATIC HMI USB stick	Yes
Network camera	Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473
Accessories	
Expansion module	Optional e.g. USB RFID reader, see FAQ entry ID: 99808171
Further accessories are available	Yes; Mounting clips and 2-pin power supply connector
Mechanics/material	
Enclosure material (front)	
Plastic	No
Aluminum	Yes; Powder-coated, UV resistant
Stainless steel	No
Dimensions	
Width of the housing front	415 mm
Height of housing front	310 mm
Mounting cutout, width	396 mm
Mounting cutout, height	291 mm
Overall depth	77 mm
Weights	
Weight (without packaging)	4 kg
Weight (with packaging)	6.2 kg
Other	
Note:	Power, quantity structure and performance correspond to a standard 12" Comfort Panel

3/2/2021

last modified: