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	
Current consumption (rated value)	1.3 A
Starting current inrush I²t	0.5 A ² ·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
Acoustics	
Buzzer	No
Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
Software clock	No
retentive	Yes; Back-up duration typically 6 weeks
synchronizable	Yes
Interfaces	
Number of industrial Ethernet interfaces	2
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 485 interfaces Number of RS 422 interfaces	1; RS 422 / 485 combined 1
Number of RS 422 interfaces	1
Number of RS 422 interfaces Number of RS 232 interfaces	1 0
Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces	1 0 2; USB 2.0
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	1 0 2; USB 2.0 1; 5-pole
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	1 0 2; USB 2.0 1; 5-pole 0 0
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	1 0 2; USB 2.0 1; 5-pole 0 0 2
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	1 0 2; USB 2.0 1; 5-pole 0 0
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	1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
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	1 0 2; USB 2.0 1; 5-pole 0 0 2 No
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	1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
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	1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No
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	1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 No
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	1 0 2; USB 2.0 1; 5-pole 0 0 0 2 No 2 No Yes Yes
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	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
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	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
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	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
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	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
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)	1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 2 2 No
Number of RS 422 interfaces Number of RS 232 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	1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 2 No
Number of RS 422 interfaces Number of RS 232 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	1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Number of RS 422 interfaces Number of RS 232 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 • SNMP	1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Number of RS 422 interfaces Number of RS 232 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 • SNMP • DCP	1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Number of RS 422 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 SNMP DCP LLDP	1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Number of RS 422 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 SNMP DCP LLDP WEB characteristics	1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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 SNMP DCP LLDP WEB characteristics HTTP	1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Number of RS 422 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 SNMP DCP LLDP WEB characteristics	1 0 2; USB 2.0 1; 5-pole 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

• 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	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
	Yes
RCM (formerly C-TICK)	Yes
KC approval Use in hazardous areas	165
	Voc. For inscription on device rating plate
ATEX Zone 2ATEX Zone 22	Yes; For inscription on device rating plate
	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	V
Germanischer Lloyd (GL)	Yes
American Bureau of Shipping (ABS)	Yes
Bureau Veritas (BV) All All All All All All All All Al	Yes; Available soon
Det Norske Veritas (DNV)	Yes
Korean Register of Shipping (KRS)	No; Available soon
Lloyds Register of Shipping (LRS) Nigram (Gill Kunksi (Olana NK))	Yes
Nippon Kaiji Kyokai (Class NK) Dalaki Bajaata Otatkawa (DDO)	Yes; Available soon
Polski Rejestr Statkow (PRS)	No A TILL
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)	
 At maximum tilt angle, min. 	-30 °C
— 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. — At maximum tilt angle, min.	-30 ℃ 45 °C
Ambient temperature during storage/transportation	TO 0
• min.	-30 °C
• max.	70 °C
Altitude during operation relating to sea level	10 0
Installation altitude above sea level, max.	3 000 m; Depending on the operating temperature
Relative humidity	5 000 III, Depending on the operating temperature
Operation, max.	90 %; no condensation
Operating systems	55 76, No contraction
proprietary	No
pre-installed operating system	140
Windows CE	Yes
configuration / header	100
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
	Yes
Process value default (input) possible	
Recipe management	Yes
Configuration software	No
STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal)	No No
STEP 7 Professional (TIA Portal) WinCC flevible Compact	No No
WinCC flexible Compact WinCC flexible Standard	No No
WinCC flexible Standard WinCC flexible Advanced	No No
WinCC flexible Advanced (TIA R. 4.1)	No
WinCC Basic (TIA Portal) Wince Co. Co. (TIA Portal)	No
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal)	Yes; WinCC V13 SP1 Update 7 + HSP or higher
WinCC Advanced (TIA Portal)	Yes; WinCC V13 SP1 Update 7 + HSP or higher
WinCC Professional (TIA Portal)	Yes; WinCC V13 SP1 Update 7 + HSP or higher
Languages	
Online languages • Number of online/runtime languages	32
Project languages	32
Languages per project	32
Functionality under WinCC (TIA Portal)	OL .
Libraries	Yes
Applications/options	165
	Vec
Web browser	Yes Yes
Web browserPocket Word	Yes
Web browserPocket WordPocket Excel	Yes Yes
Web browserPocket WordPocket ExcelPDF Viewer	Yes Yes Yes
 Web browser Pocket Word Pocket Excel PDF Viewer Media Player 	Yes Yes Yes Yes
 Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer 	Yes Yes Yes Yes Yes
 Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit 	Yes Yes Yes Yes Yes Yes Yes
Web browser Pocket Word Pocket Excel PDF Viewer Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Number of Visual Basic Scripts	Yes Yes Yes Yes Yes
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 Yes Yes Yes Yes Yes Yes Yes
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	Yes Yes Yes Yes Yes Yes Yes Yes Yes
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 Yes Yes Yes Yes Yes Yes Yes
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 Help system	Yes Yes Yes Yes Yes Yes Yes Yes Yes
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 Help system Number of characters per info text	Yes Yes Yes Yes Yes Yes Yes Yes Yes
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 Help system Number of characters per info text Message system	Yes Yes Yes Yes Yes Yes Yes Yes Yes 70
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 Help system Number of characters per info text Message system Number of alarm classes	Yes Yes Yes Yes Yes Yes Yes Yes Yes
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 Help system Number of characters per info text Message system Number of alarm classes Bit messages	Yes Yes Yes Yes Yes Yes Yes Yes 70
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 Help system Number of characters per info text Message system Number of alarm classes Bit messages — Number of bit messages	Yes Yes Yes Yes Yes Yes Yes Yes Yes 70
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 Help system Number of characters per info text Message system Number of alarm classes Bit messages Number of bit messages Analog messages	Yes Yes Yes Yes Yes Yes Yes Yes Yes 70 32 4 000
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 Help system Number of characters per info text Message system Number of alarm classes Bit messages — Number of bit messages Analog messages — Number of analog messages	Yes Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes You 200
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 Help system Number of characters per info text Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure	Yes Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes You You 32 4 000 200 Yes
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 Help system Number of characters per info text Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure System messages HMI	Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes Yes You Yes Yes Yes Yes Yes Yes Yes Ye
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 Help system Number of characters per info text Message system Number of alarm classes Bit messages Number of bit messages Analog messages Number of analog messages S7 alarm number procedure	Yes Yes Yes Yes Yes Yes Yes Yes Yes You Yes Yes You You 32 4 000 200 Yes

Number of characters per message	80
Number of characters per message Number of process values per message	8
 Acknowledgment groups 	Yes
Message indicator	Yes
	Tes
Message buffer Number of patrice	1 024
— Number of entries	
Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management • Number of recipes	300
·	
Data records per recipe Tatrice and data record.	500
Entries per data record	1 000
Size of internal recipe memory	2 Mbyte
Recipe memory expandable	Yes
Variables	0.010
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	
 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
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	
Number of archives per device	50
Number of entries per archive	20 000
Message archive	Yes
Process value archive	Yes
Archiving methods	
— 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	v.
— US English	Yes
Transfer (upload/download) • MPI/PROFIBUS DP	Yes
WEIGHTOFIBUS DE USB	Yes
• Ethernet	Yes
using external storage medium	Yes; Backup/restore
Process coupling	тез, раскириезкие
• \$7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• \$7-300/400	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
 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
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