SIEMENS

Data sheet



SIMATIC HMI TP1500 Comfort, Comfort Panel, Touch operation, 15" 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	
Product type designation	TP1500 Comfort
Display	
Design of display	TFT
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) 	80 000 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; Analog-resistive
Expansions for operator control of the process	
 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)	1.7 A
Starting current inrush I²t	0.5 A ² ·s

Power	
Active power input, typ.	41 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
Error LED	No
Acoustics	
• Buzzer	No
Speaker	Yes
Time of day	
Clock	
Hardware clock (real-time) Oathware alasks	Yes
Software clock retentive	Yes
retentive synchronizable	Yes; Back-up duration typically 6 weeks Yes
synchronizable Interfesse	res
Interfaces	2: 2 north (quitab) Lindones dent sert
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	0, together with K3 465
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	Yes
EtherNet/IP	Yes
MPI Protocols (Ethernet)	Yes
Protocols (Ethernet) • TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
• Active X	Yes
JavaScript JavaScript JavaScript	Yes
Java VM Dedundency mode	No
Redundancy mode	
Media redundancy — MRP	Yes
Further protocols	1.00
• 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)	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
RCM (formerly C-TICK)	Yes
KC approval EAC (formerly Gost-R)	Yes Yes
Use in hazardous areas	165
ATEX Zone 2	Yes
• ATEX Zone 22	Yes
• IECEx Zone 2	Yes
• IECEx Zone 22	Yes
• cULus Class I Zone 1	No
 cULus Class I Zone 2, Division 2 	Yes; For inscription on device rating plate
 cULus Class II Division 2 	No; Available soon
 FM Class I Division 2 	Yes; For inscription on device rating plate
FM Class II Division 2	No; Available soon
Marine approval	
 Germanischer Lloyd (GL) 	No
 American Bureau of Shipping (ABS) 	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
Korean Register of Shipping (KRS)	No
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (Class NK) Palaki Paia ta (Athleys (PRC))	No No
Polski Rejestr Statkow (PRS) Chinago Classification Society (CCS)	No No
Chinese Classification Society (CCS) Ambient conditions	No
Ambient conditions	V
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.	50 °C; (55 °C, see entry ID: 64847814)
Operation (max. tilt angle)	, (00 0, 000 0) o 10 11 0 1 1 j
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	0 °C
 For vertical installation, max. 	40 °C
Operation (max. tilt angle, portrait format)	
At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	40 °C
Ambient temperature during storage/transportation	20.00
• min.	-20 °C
• max.	60 °C
Relative humidity	00.9/: no condensation
Operation, max.	90 %; no condensation
Operating systems	

proprietary	No
pre-installed operating system	110
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	
 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) Wince Control (TIA Portal)	No
WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	
Online languages	00
Number of online/runtime languages	32
Project languages	22
Languages per project	32
Functionality under WinCC (TIA Portal)	V
Libraries	Yes
Applications/options	Voc
Web browser Pocket Word	Yes Yes
Pocket Word 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 System event mere (SIMATIC SZ SINI IMEDII)	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	4.006
Number of variables per device Number of variables per screen	4 096
Number of variables per screenLimit values	400 Yes
Multiplexing	Yes
• Multiplexing	100

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
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 Madia Player	Yes
Media Player HTML browser	Yes
HTML browser DDE display	Yes Yes
PDF displayIP 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 text lists per project Number of entries per text list	500
Number of graphics lists per project	500
Number of graphics list per graphics list	500
Archiving Archiving	
Number of archives per device	50
Number of entries per archive	50 000
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

Posses/ord Export/Import Yes	Number of users	50
SMATIC Logon		
Logging Intrough printer		
		100
Report (shift log)		Yes
Hardcopy		
Electronic print to file		
Selegible Sele		Yes; PDF, HTML
Transfer (upload/download) MPI/PROFIBUS DP	Keyboard fonts	
MPIPROFIBUS DP	— US English	Yes
USB	Transfer (upload/download)	
Ethernet	MPI/PROFIBUS DP	Yes
using external storage medium	• USB	Yes
Process coupling	 Ethernet 	Yes
	using external storage medium	Yes
	Process coupling	
	• S7-1200	Yes
	• S7-1500	Yes
LOGOI WinAC WinAC SINUMERIK SINOTION Allen Bradley (EtherNet/IP) Allen Bradley (EtherNet/IP) Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Molicon (InNothus TCP/IP) Modicon (Modbus TCP/IP) Mo	• S7-200	Yes
		Yes
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Mounting cutout, width Mounting cutout, height Overall depth Weights 396 mm 291 mm 75 mm		
Mounting cutout, height Overall depth 75 mm Weights		
Overall depth 75 mm Weights		
Weights		
	-	75 11111
Weight (without packaging) 4.4 kg		
	vveight (without packaging)	4.4 Kg

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