SIEMENS

Data sheet

SIMATIC HMI TP1500 Comfort Pro, for support arm (expandable, round pipe) and Extension Unit, 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 PRO
Display	
Design of display	TFT
Screen diagonal	15.6 in
Display width	344.2 mm
Display height	193.5 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	1 366 pixel
 Vertical image resolution 	768 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	50 000 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
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 concumption (rated value)	4.5.A
Current consumption (rated value)	1.5 A
Starting current inrush I²t	0.5 A²·s
Power	00.14
Active power input, typ.	36 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)	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 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)	100
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	100
HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
Active X	Yes
	Yes
Java VM	
Java VM Dedundancy mode	No
Redundancy mode	
Media redundancy	

— MRP	Yes
Further protocols	
• CAN	No
MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes; S7 controller
EMC	165, Or controller
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class A, for use in industrial areas Limit class B, for use in residential areas	No
·	INO
Degree and class of protection	IDOS
IP (at the front)	IP65
IP (rear)	IP65
NEMA (front)	V
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	00.0/
Operation, max.	90 %; no condensation
Operating systems	N-
proprietary	No
pre-installed operating system	Voc. Windows Embedded Comment 2012
• Windows CE	Yes; Windows Embedded Compact 2013
configuration / header	V
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 No
STEP 7 Professional (TIA Portal) WinCC flovible Compact	No No
WinCC flexible Compact WinCC flexible Standard	No No
WinCC flexible Standard WinCC flexible Advanced	No No
WinCC flexible Advanced WinCC Resid (TIA Restal)	No
WinCC Basic (TIA Portal) WinCO Constant (TIA Portal)	No
WinCC Comfort (TIA Portal) WinCO Advanced (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Advanced (TIA Portal) Wince Co. Review of (TIA Portal)	Yes; V14 SP1 HSP and higher
WinCC Professional (TIA Portal)	Yes; V14 SP1 HSP and higher
Languages	

Number of online/furtime languages 32	Online languages	
Languages per project 32		32
Languages per project S2		<u></u>
Functionality under Winoc (TIA Portal) Libraries Yes		32
Applications/options Yes		
Applications options		Yes
Pocket Excel Yes PDF Viewer Yes Media Player Yes Mida Player Yes SIMATIC WinCC Audit Yes Simath Controlled Yes System Ressages Simath Controlled Yes System Ressages Simath Controlled Yes System Ressage Simath Controlled Yes System Ressage Simath Controlled Yes		Yes
	Pocket Word	Yes
Media Player SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit Yes SIMATIC WinCC Audit Yes Number of Visual Basic Scripts Task planner • time-controlled Yes • task-controlled Yes • task-controlled Yes Sessage system • Number of alam classes • Number of alam classes • Rumber of bit messages	Pocket Excel	Yes
• SIMATIC WinCC Sm@rlServer Yes Number of Visual Basic Sorpis Yes Task planner • time controlled • time controlled Yes • lask-controlled Yes • Message system • Without of alarm classes • Number of alarm classes 32 • Bit messages 6000 – Number of alard messages 200 • S7 alarm number procedure Yes • System messages HMI Yes • System messages HMI Yes • System messages HMI Yes • System of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes <td< td=""><td>PDF Viewer</td><td>Yes</td></td<>	PDF Viewer	Yes
● SIMATIC WincC Audit Yes Number of Visual Basic Scripts Yes 1 time-controlled Yes • task-controlled Yes • task-controlled Yes • task-controlled Yes • Message system 32 • Number of alarm classes 6000 • Bit messages 6000 • Analog messages 200 • Analog messages 200 • Sy alarm number procedure Yes • System messages HMI Yes • Number of process values per message 8 • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes • Recipe management Yes • Number of recipes 500 • Data records per recipe 1000 • Entries per data record 2000 • Size of internal recipe memory 4 Mbyte • Recipe mem	Media Player	Yes
Task planner Ves	 SIMATIC WinCC Sm@rtServer 	Yes
Task planner Ime-controlled Yes task-controlled Yes Message system Number of alarm classes 32 Bit messages Number of bit messages 6000 Analog messages Number of nanlog messages 200 S7 alarm number procedure Yes System messages HMI System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message 80 Number of process values per message 80 Number of process values per message 80 Acknowledgment group Yes Message indicator 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 Number of variables per device 4 096 Number of variables per screen 400 Limit values Yes Multiplexing Yes Arrays Yes Mumber of configurable images 750 Permanent window/default Yes Sibide-in images Yes Permanent window/default Yes Sibide-in images Yes Sibide-in images Yes Sibide-in images Yes Sibide-in images Yes Image selection by PLC Yes Image unumber in the PLC Y	SIMATIC WinCC Audit	Yes
Itime-controlled Yes Message system Number of alarm classes Bit messages — Number of malang messages — Number of malang messages — Number of malang messages — Straim number procedure System messages HMI System went, more (SIMATIC ST, SINUMERIK, SIMOTION,) Number of characters per message Number of process values per message Number of process values per message Acknowledgment groups Message indicator Recipe management Number of recipes Data records per recipe Chirdes per data record Cisce of internal recipe memory Recipe memory expandable Versibules Number of variables per device Number of variables per device Number of variables per screen Number of variables	Number of Visual Basic Scripts	Yes
Message system	Task planner	
Number of alarm classes 32		Yes
Number of alarm classes		Yes
- Number of bit messages - Analog messages - Number of analog messages - S7 alarm number procedure - System messages HMI - System messages HMI - System messages HMI - System messages HMI - System system event, more (SIMATIC S7, SINUMERIK, SIMOTION,) - Number of characters per message - Acknowledgment groups - Ack		32
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Symbolic I/O fields (text list) Yes		Vaa
Symbolic I/O fields (text list) Yes	• I/O fields	res
Date/time fields Yes		
	Graphic I/O fields (graphics list)	Yes

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• 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	
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 	
 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	
Electronic print to file	
	Yes
Character sets	
Character sets	Yes
Keyboard fonts	Yes; PDF, HTML
	Yes
Keyboard fonts	Yes; PDF, HTML

• 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	396 mm
Height of housing front	256 mm; Without basic adapter
Overall depth	101 mm; Without basic adapter
Weights	
Weight (without packaging)	6.3 kg

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