SIEMENS

Data sheet



SIPLUS HMI TP1500 Comfort Outdoor based on 6AV2124-0QC13-0AX0 with conformal coating, -30...+60 °C, 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, configurable WinCC Comfort V13 SP1 and higher, HSP

General information	
Product type designation	TP1500 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) 	
— F1Fx	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	
T ()	
Type of supply voltage	DC

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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 422 interfaces	1
Number of RS 232 interfaces	0
Number of USB interfaces	2; USB 2.0
USB Mini B Number of 60 and interference (TTV)	1; 5-pole
Number of 20 mA interfaces (TTY)	0
Number of other interfaces	0
Number of other interfaces Number of SD card slots	0 2
With software interfaces	No
Industrial Ethernet	NU
Industrial Ethernet status LED	2
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)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	No
• HTML	Yes
• XML	No
• CSS	Yes

Active X	No
JavaScript	Yes
Java VM	No
Redundancy mode	NU
Media redundancy	
— MRP	Yes
Further protocols	165
• 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	
Marine approval	
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; = Tmin
 For vertical installation, max. 	60 °C; (55 °C, see entry ID: 64847814)
Operation (max. tilt angle)	
— At maximum tilt angle, min.	-30 °C; = Tmin
 At maximum tilt angle, max. 	50 °C; = Tmax
Operation (vertical installation, portrait format)	
— For vertical installation, min.	-30 °C; = Tmin
For vertical installation, max.	50 °C; = Tmax
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	-30 °C; = Tmin
— At maximum tilt angle, max.	45 °C; = Tmax
Ambient temperature during storage/transportation	
• min.	-30 °C
• max.	70 °C
Altitude during operation relating to sea level	5000
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K)
	at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068- 2-38, max. 	100 %; RH incl. condensation/frost (no commissioning when condensation present), vertical mounting position
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
001 £ 1-0-0	request

 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology	
Against chemically active substances acc. to EN	Yes; Class 3 (excluding trichlorethylene)
60654-4	100, Oldo o (oxoldding thomotothylono)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A 	Yes; Conformal coating, Class A
Operating systems	
proprietary	No
pre-installed operating system	
Windows CE	Yes
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)	No
WinCC Comfort (TIA Portal)	Yes
WinCC Advanced (TIA Portal)	Yes
WinCC Professional (TIA Portal)	Yes
Languages	100
Online languages	
	32
Number of online/runtime languages Project languages	02
Languages Languages per project	32
Languages per project Functionality under WinCC (TIA Portal)	02
	Voo
Libraries	Yes
Applications/options	V
Web browser Parket Ward	Yes
Pocket Word	Yes
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	4 000
Analog messages	4 000
— Number of analog messages	200
Number of arrang messages S7 alarm number procedure	Yes
•	
System messages HMI System messages HMI System messages HMI	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
	Yes
Arrays Images	165
Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Image selection by PLC	Yes
Image scientiff by FEG 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
·	160
Complex image objects Number of complex objects per screen	20
 Number of complex objects per screen 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 graphes lists per project Number of graphes lists per project Number of entries per graphes list Number of entries per graphes list Number of entries per active Number of user delive Number of user graph Number of user graph Number of user groups N		
Number of actives per device 50	 Number of entries per text list 	500
Number of earthives per device 50	 Number of graphics lists per project 	500
Number of archives per archive 50	Number of entries per graphics list	500
Number of entries per archive Nessage archive Neroses value archive Neroses value archive Nescription archive Nescription archive Nemony card	Archiving	
Nessage archive Process value archive Process value archive Activing methods Sequential archive Short term archive Nemony location —Memory card —USB memory —Ethemet Posage archive Posage archive Posage archive Posage archive Posage archive Number of user groups	 Number of archives per device 	50
	 Number of entries per archive 	20 000
	Message archive	Yes
Sequential archive	 Process value archive 	Yes
- Short-term archive	Archiving methods	
	 Sequential archive 	Yes
Memory card USB memory Elthernet USB memory Elthernet CSV TXT RDB TXT RDB Yes TXT RDB Security Number of user groups Number of user groups Number of user rights 32 Number of users Password export/import Yes SSMATIC Loop Yes Nalman	— Short-term archive	Yes
Memory card USB memory Elthernet USB memory Elthernet CSV TXT RDB TXT RDB Yes TXT RDB Security Number of user groups Number of user groups Number of user rights 32 Number of users Password export/import Yes SSMATIC Loop Yes Nalman	Memory location	
— USB memory — Ethermet Yes	— Memory card	Yes
- Data storage format		Yes
- CSV	— Ethernet	Yes
- CSV	Data storage format	
- TXT		Yes
Number of user groups		
Number of user groups 50		
• Number of user groups 50 • Number of users (piths) 32 • Number of users 50 • Password export/import Yes • SIMATIC Logn Yes Logging through printer Ves • Alarms Yes • Report (shift log) Yes • Hardcopy Yes • Hardcopy Yes • Hardcopy Yes • Keyboard fonts Yes — US English Yes • Keyboard fonts Yes — US English Yes • Semantic Stratege medium Yes • USB Yes • Elthemet Yes • S7-1500 Yes • S7-1500 Yes • S7-200 Yes • S7-200 Yes • S7-30/400 Yes • SINUMERIK Yes; with SINUMERIK option package • SINUMERIK Yes • Allen Bradley (ElterNet/IP) Yes • Allen Bradley (ElterNet/IP) Yes • Allen Bradley (Elter		
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 Lyes Lestronic print to file Yes Electronic print to file Yes List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List List		50
Number of users		
	9	
Logging through printer		
Alarms		
Report (shift log)		160
Report (shift log) Hardcopy Ale Hardcopy		Yes
Electronic print to file Feeyboard fonts - US English - US English Feeyboard fonts - US English Fees Feeyboard fonts - US English Fees Fees		
Electronic print to file Yes; PDF, HTML Character sets ** • Keyboard fonts Yes — US English Yes Transfer (upload/download) ** • USB Yes • Lethernet Yes • Lethernet Yes • using external storage medium Yes; Backup/restore Process coupling ** • \$7-1200 Yes • \$7-1500 Yes • \$7-200 Yes • \$7-300/400 Yes • LOGG! 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 • Middicon (Modbus TCP/IP) Yes • Modicon (Modbus TCP/IP) Yes • Modicon (Modbus) Yes • OPC UA Client Yes • OPC UA Server Yes	· · · · · · · · · · · · · · · · · · ·	
Ekeyboard fonts —US English Yes Transfer (upload/download) —US Busilish Yes ■ USB Yes —US Busing external storage medium Yes; Backup/restore Process coupling ■ S7-1200 Yes —S7-1500 Yes ■ S7-200 Yes —S7-200 Yes ■ S7-200 Yes —S7-200 Yes ■ LOGO! Yes —Yes ■ WinAC Yes —Yes ■ SIMUMERIK Yes; with SINUMERIK option package ■ SIMOTION Yes ■ Allen Bradley (EtherNet/IP) Yes ■ Allen Bradley (DF1) Yes ■ Mitsubishi (FX) Yes ■ Mitsubishi (FX) Yes ■ OMRON (FINS TCP) No ■ Modicon (Modbus TCP/IP) Yes ■ Packup/Restore man		
		165, FDF, TITML
Transfer (upload/download) ■ MPI/PROFIBUS DP ■ USB ■ Ethernet ■ Using external storage medium ■ Yes ■ Using external storage medium ■ Yes ■ S7-1500 ■ Yes ■ S7-1500 ■ Yes ■ S7-200 ■ Yes ■ S7-300/400 ■ Yes ■ UGGO! ■ WinAC ■ SINUMERIK ■ SIMOTION ■ Allen Bradley (DF1) ■ Allen Bradley (DF1) ■ Mitsubishi (MC TCP/IP) ■ Midicon (Modbus) ■ Modicon (Modbus) ■ Modicon (Modbus) ■ OPC UA Client ■ Yes ■ OPC UA Client ■ Yes ■ Service tools/configuration aids ■ Backup/Restore automatically ■ Packup/Restore automatically ■ Yes ■ Backup/Restore automatically ■ Yes		
Transfer (upload/download) • MPI/PROFIBUS DP		Von
		165
■ Ethernet		Von
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● using external storage medium Yes; Backup/restore Process coupling ● S7-1200 Yes ● S7-1500 Yes ● S7-200 Yes ● S7-200(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 (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 Yes ● Backup/Restore manually Yes ● Backup/Restore automatically 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 • 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/Multillink) Yes • Modicon (Modbus TCP/IP) Yes • Modicon (Modbus TCP/IP) Yes • OPC UA Client Yes • OPC UA Server Yes Service tools/configuration aids Yes • Backup/Restore manually Yes • Backup/Restore automatically Yes		Yes; Backup/restore
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Modicon (Modbus) OPC UA Client OPC UA Server Yes Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Yes	 OMRON (LINK/Multilink) 	Yes
OPC UA Client OPC UA Server Yes Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Yes Yes	 Modicon (Modbus TCP/IP) 	Yes
 OPC UA Server Service tools/configuration aids Backup/Restore manually Backup/Restore automatically Yes 	Modicon (Modbus)	Yes
Service tools/configuration aids • Backup/Restore manually • Backup/Restore automatically Yes Yes	OPC UA Client	Yes
 Backup/Restore manually Backup/Restore automatically Yes 	OPC UA Server	Yes
Backup/Restore automatically Yes	Service tools/configuration aids	
	Backup/Restore manually	Yes
• Simulation 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
SIMATIC IPC USB Flashdrive (USB stick)	Yes
SIMATIC HMI USB stick	Yes
Network camera	Yes; See FAQ Entry ID: 62383298 and entry ID: 65647473
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

last modified:

10/7/2021

Mouser Electronics

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6AG11240QC132AX0