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 |
| 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 | 71 W |
| | V/00 |
| 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 |
| | Yes |
| synchronizable | Tes |
| 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 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 | Yes |
| Protocols (Ethernet) | |
| • TCP/IP | Yes |
| • DHCP | Yes |
| • SNMP | Yes |
| • DCP | Yes |
| • LLDP | Yes |
| WEB characteristics | 100 |
| HTTP | Yes |
| • HTTPS | Yes |
| • HTML | Yes |
| • ATML • XML | Yes |
| ■ ∧IVIL | 165 |

| • CSS | Yes |
|--|--|
| Active X | Yes |
| JavaScript | Yes |
| Java VM | 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 | roo, or controller |
| Emission of radio interference acc. to EN 55 011 | |
| | Vaa |
| Limit class A, for use in industrial areas Limit class B, for use in residential 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 | Yes |
| EAC (formersh) (Cost D) | Yes |
| EAC (formerly Gost-R) | 163 |
| Use in hazardous areas | 165 |
| | Yes |
| Use in hazardous areas | |
| Use in hazardous areas • ATEX Zone 2 | Yes |
| Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 | Yes Yes |
| Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 | Yes Yes Yes |
| Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 22 | Yes Yes Yes |
| Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 22 • cULus Class I Zone 1 | Yes Yes Yes Yes No |
| Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 | Yes Yes Yes Yes Yes Yes Yes Yes No Yes; For inscription on device rating plate |
| Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 2 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • cULus Class II Division 2 | Yes Yes Yes Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon |
| Use in hazardous areas • ATEX Zone 2 • ATEX Zone 22 • IECEx Zone 22 • IECEx Zone 22 • cULus Class I Zone 1 • cULus Class I Zone 2, Division 2 • cULus Class II Division 2 • FM Class I Division 2 | Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate |
| Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 CULus Class II Division 2 FM Class I Division 2 | Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate |
| Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 CULus Class II Division 2 FM Class I Division 2 FM Class II Division 2 Arine approval Germanischer Lloyd (GL) | Yes Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate No; Available soon |
| Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 CULus Class II Division 2 FM Class I Division 2 FM Class II Division 2 Arrine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) | Yes Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate No; Available soon No |
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| Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 CULus Class II Division 2 FM Class I Division 2 FM Class II Division 2 Arine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) | Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate No; Available soon No No No No No |
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| Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 CULus Class II Division 2 FM Class II Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Suited for outdoor use | Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate No; Available soon No |
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| Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 CULus Class II Division 2 FM Class II Division 2 Amrine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) | Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate No; Available soon No |
| Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 CULus Class II Division 2 FM Class I Division 2 FM Class II Division 2 FM Class II Division 2 FM Class II Division 2 FM Class II Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Suited for indoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. | Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate No; Available soon No |
| Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 CULus Class II Division 2 FM Class I Division 2 FM Class II Division 2 FM Class II Division 2 FM Class II Division 2 Bureau FM Class II Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) For vertical installation, min. For vertical installation, max. | Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate No; Available soon No |
| Use in hazardous areas ATEX Zone 2 ATEX Zone 22 IECEx Zone 2 IECEx Zone 22 CULus Class I Zone 1 CULus Class I Zone 2, Division 2 CULus Class II Division 2 FM Class I Division 2 FM Class II Division 2 FM Class II Division 2 FM Class II Division 2 FM Class II Division 2 Marine approval Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Suited for indoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. | Yes Yes Yes Yes No Yes; For inscription on device rating plate No; Available soon Yes; For inscription on device rating plate No; Available soon No |

| A1 | 40.00 |
|--|------------------------------------|
| — At maximum tilt angle, min. | 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, min. | 40 °C |
| Ambient temperature during storage/transportation | |
| • min. | -20 °C |
| • max. | 60 °C |
| Relative humidity | |
| Operation, max. | 90 %; no condensation |
| Operating systems | |
| proprietary | No |
| pre-installed operating system | |
| 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 | 163 |
| STEP 7 Basic (TIA Portal) | No |
| STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) | No |
| WinCC flexible Compact | No |
| WinCC flexible Compact WinCC flexible Standard | No |
| WinCC flexible Standard WinCC flexible Advanced | No |
| | |
| WinCC Basic (TIA Portal) WinCC Correlate (TIA Portal) | No |
| WinCC Comfort (TIA Portal) (TIA Portal) | Yes; V14 SP1 HSP and higher |
| WinCC Advanced (TIA Portal) | Yes; V14 SP1 HSP and higher |
| WinCC Professional (TIA Portal) | Yes; V14 SP1 HSP and higher |
| Languages | |
| Online languages | |
| Number of online/runtime languages | 32 |
| Project languages | |
| Languages per project | 32 |
| Functionality under WinCC (TIA Portal) | |
| Libraries | Yes |
| Applications/options | |
| Web browser | 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 | 6 000 |
| Analog messages | |
| Number of analog messages | 200 |
| S7 alarm number procedure | Yes |
| - 37 diaministriprocedure | 100 |

| Ocertage groups LIMI | V |
|---|------------|
| System messages HMI System messages (SIMATIC CZ, CINIUMEDIK) | Yes |
| System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) | Yes |
| Number of characters per message | 80 |
| | |
| Number of process values per message Asknowledges and results | 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 | |
| Number of variables per device | 4 096 |
| Number of variables per screen | 400 |
| Limit values | Yes |
| Multiplexing | Yes |
| 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 selection by TEO Image number in the PLC | Yes |
| Image objects | 165 |
| 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 | Yes |
| Media Player | Yes |
| HTML browser | Yes |
| PDF display | Yes |
| | |
| IP camera display | Yes |
| - Day ayanka | Yes |
| Bar graphs | V |
| • Sliders | Yes |
| | Yes Yes |

| North an affect lists many mainst | F00 |
|---|--|
| 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 | 50 |
| Number of archives per device Number of archives per device | 50 |
| Number of entries per archive | 50 000 |
| Message archive | Yes |
| Process value archive | Yes |
| Archiving methods | V |
| — Sequential archive | Yes |
| — Short-term archive | Yes |
| Memory location | V |
| — Memory card | Yes |
| — USB memory | Yes |
| — Ethernet | Yes |
| Data storage format | V |
| — 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 | |
| — US English | Yes |
| Transfer (upload/download) | |
| MPI/PROFIBUS DP | Yes |
| • USB | Yes |
| • Ethernet | Yes |
| using external storage medium | Yes |
| Process coupling | |
| • S7-1200 | Yes |
| • S7-1500 | Yes |
| • \$7-200 | 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 | 415 mm |
| Height of housing front | 310 mm |
| Troight of fredering from | |
| Mounting cutout, width | 396 mm |
| | 396 mm 291 mm |
| Mounting cutout, width | |
| Mounting cutout, width Mounting cutout, height | 291 mm |

3/2/2021

last modified: