SIEMENS

Data sheet

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SIMATIC HMI TP1500 Comfort Pro, for support arm (not expandable, flange on top), 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 | |

| | 1.5 A |
|--|---|
| Current consumption (rated value) Starting current inrush I ² t | 0.5 A ² ·s |
| Power | 0.3 A 'S |
| | 20.141 |
| 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) | |
| • 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 | 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 | |
| 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) | IP65 |
| 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 | 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°0 |
| — For vertical installation, max. | 45 °C |
| Operation (max. tilt angle) | |
| — At maximum tilt angle, min. | 0°0 |
| — At maximum tilt angle, max. | 40 °C |
| Ambient temperature during storage/transportation | |
| • min. | -20 °C |
| • max. | 00 °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 | No |
| STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) | No |
| WinCC flexible Compact | No |
| Winder lexible compact Winder lexible Standard | No |
| Wind C flexible Standard Wind C flexible Advanced | No |
| WinCo liexible Advanced WinCo liexible Advanced WinCo liexible Advanced | No |
| WinCo Dasic (TA Portal) WinCo Comfort (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 |
| System messages HMI | Yes |
| • System event, more (SIMATIC S7, SINUMERIK, | Yes |
| SIMOTION,) | |
| 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 | |
| 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 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 | 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 | 50 |
| Number of archives per device | |
| Number of entries per archive Message archive | 50 000 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 | |
| — 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 |
| • 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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Pobrano z : https://panele-hmi.pl/panel-operatorski-hmi-15-tp1500-siemens-6av2124-0qc24-0ax0-comfort-pro