SIEMENS

Data sheet



SIMATIC HMI TP1200 Comfort INOX Stainless steel front, Glass pane, capacitive touch, Degree of protection front IP69K, 12" widescreen TFT display, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, Windows CE 6.0, (Microsoft Support included Security updates discontinued) configurable from WinCC Comfort V15

| General information | |
|---|-------------------------|
| Product type designation | TP1200 Comfort INOX PCT |
| Display | |
| Design of display | TFT |
| Screen diagonal | 12.1 in |
| Display width | 261.1 mm |
| Display height | 163.2 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 |
| Design as multi-touch screen | No |
| Monitor keyboard | Yes |
| 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 | |
|---|--|
| Type of supply voltage | DC |
| | 24 V |
| Rated value (DC) | |
| permissible range, lower limit (DC) permissible range, upper limit (DC) | 19.2 V 28.8 V |
| | 20.0 V |
| Input current | |
| Current consumption (rated value) | 0.85 A |
| Starting current inrush I²t | 0.5 A ² ·s |
| Power | |
| Active power input, typ. | 20 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 No |
| Error LED | No |
| Acoustics | Speaker |
| Buzzer | No No |
| Speaker | Yes |
| | 160 |
| Time of day | |
| Clock | v. |
| Hardware clock (real-time) | Yes |
| Software clock | Yes |
| • retentive | Yes; Back-up duration typically 6 weeks |
| synchronizable | Yes |
| | |
| Interfaces | |
| Number of industrial Ethernet interfaces | 1; 2 ports (switch) |
| Number of industrial Ethernet interfaces Number of RS 485 interfaces | 1; RS 422 / 485 combined |
| Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces | 1; RS 422 / 485 combined 0; together with RS 485 |
| Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces | 1; RS 422 / 485 combined 0; together with RS 485 0 |
| Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces | 1; RS 422 / 485 combined 0; together with RS 485 |
| Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B | 1; RS 422 / 485 combined 0; together with RS 485 0 |
| Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) | 1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 |
| Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces | 1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole |
| Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of other interfaces | 1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 0 |
| Number of industrial Ethernet interfaces Number of RS 485 interfaces Number of RS 422 interfaces Number of RS 232 interfaces Number of USB interfaces • USB Mini B Number of 20 mA interfaces (TTY) Number of parallel interfaces Number of other interfaces Number of SD card slots | 1; RS 422 / 485 combined 0; together with RS 485 0 2; USB 2.0 1; 5-pole 0 0 2 |
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| • HTTPS | Yes |
|--|----------------------------------|
| • HTML | Yes |
| • XML | Yes |
| • CSS | Yes |
| Active X | Yes |
| JavaScript | Yes |
| • Java VM | No |
| Redundancy mode | |
| Media redundancy | V A (W) 00 V/F |
| — MRP | Yes; As of WinCC V15 |
| Further protocols | No |
| ● CAN ● MODBUS | No Yes |
| | i es |
| EMC | |
| Emission of radio interference acc. to EN 55 011 | Vee |
| Limit class A, for use in industrial areas Limit class B, for use in regidential areas | Yes |
| Limit class B, for use in residential areas | No |
| Degree and class of protection | IDOO / ID OV _ LIDOO / ID OV |
| IP (at the front) | IP66 / IPx6K and IP69 / IPx9K |
| IP (rear) | IP20 |
| NEMA (front) | NEMA 4, NEMA 12 (when installed) |
| Enclosure Type 4 at the front Find a current type 4 at the front | No Yea |
| Enclosure Type 4x at the frontEnclosure Type 12 at the front | Yes Yes |
| | Tes |
| Standards, approvals, certificates | Vec |
| CE mark cULus | Yes Yes |
| | Yes |
| RCM (formerly C-TICK) | No |
| KC approval EAC (formerly Gost-R) | Yes |
| Use in hazardous areas | Tes |
| 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 |
| • cULus Class II Division 2 | No |
| FM Class I Division 2 | No |
| • FM Class II Division 2 | No |
| 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. | 50 °C |
| Operation (max. tilt angle) | |
| — 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. | 35 °C |
| Ambient temperature during storage/transportation | |
| • min. | -20 °C |
| • max. | 0°C |
| | |

| Altitude during operation relating to sea level | |
|---|---|
| Installation altitude above sea level, max. | 2 000 m |
| Relative humidity | |
| Operation, max. | 90 %; no condensation |
| 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; As of WinCC V15 |
| WinCC Advanced (TIA Portal) | Yes; As of WinCC V15 |
| WinCC Professional (TIA Portal) | Yes; As of WinCC V15 |
| _anguages | |
| Online languages | |
| Number of online/runtime languages | 32 |
| Project languages | |
| Languages per project | 32 |
| Functionality under WinCC (TIA Portal) | |
| Libraries | Yes |
| Applications/options | Internet Explorer, PDF/Word/Excel Viewer, Sm@rtService, Sm@rtAccess, ProAgent |
| Web browser | Yes |
| Pocket Word | Yes; Viewer |
| Pocket Excel | Yes; Viewer |
| PDF Viewer | Yes |
| Media Player | Yes |
| SIMATIC WinCC Sm@rtServer | Yes |
| SIMATIC WinCC Audit | Yes |
| Number of Visual Basic Scripts | Yes |
| Task planner | Yes |
| time-controlled | Yes |
| task-controlled | Yes |
| Help system | |
| Number of characters per info text | 70 |
| Message system | |
| Number of alarm classes | 32 |
| Bit messages | |
| Number of bit messages | 4 000 |
| Analog messages | |
| Number of analog messages | 200 |
| S7 alarm number procedure | Yes |
| 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 |

| M | |
|--|------------|
| Message buffer | 4.004 |
| — Number of entries | 1 024 |
| — Circulating buffer | Yes |
| retentivemaintenance-free | Yes Yes |
| Recipe management | Tes |
| 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 | 100 |
| Number of variables per device | 2 048 |
| Number of variables per screen | 400 |
| Limit values | Yes |
| Multiplexing | Yes |
| Structures | Yes |
| Arrays | Yes |
| Images | |
| Number of configurable images | 500 |
| 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 | 400 |
| 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) Date/time fields | Yes |
| Switches | Yes Yes |
| Buttons | Yes |
| Graphic display | Yes |
| • Icons | Yes |
| Geometric objects | Yes |
| Complex image objects | |
| Number of complex objects per screen | 20 |
| 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 Lists | Yes |
| Lists | 500 |
| Number of entries per text list | 500 |
| Number of entries per text listNumber of graphics lists per project | 500 500 |
| - DOLLOG OF OLGOPIUS 11919 DEL DIOTEGI | 000 |

| Number of entries per graphics list | 500 |
|---|--|
| Archiving | |
| Number of archives per device | 50 |
| Number of entries per archive | 20 000 |
| Message archive | Yes |
| Process value archive | Yes |
| Archiving methods | Sequential log, circular log, alarm log, process value archive |
| Sequential archive | Yes |
| Short-term archive | Yes |
| Memory location | SD/MMC card, Ethernet, USB memory stick |
| — Memory card | Yes |
| — USB memory | Yes |
| — Ethernet | Yes |
| Data storage format | CSV file, readable, e.g. with MS Excel, MS Access |
| — 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 American (English) |
| — 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 |
| • SIMOTION | Yes |
| Allen Bradley (EtherNet/IP) | Yes |
| Allen Bradley (DF1) | Yes |
| Mitsubishi (MC TCP/IP) | Yes |
| Mitsubishi (FX) ANDON (FN) TOP) | 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 |
| Accessories | |
| Further accessories are available | Yes; Service Pack (seal, mounting clips, clamping frame, power supply connector) |
| Mechanics/material | |
| Enclosure material (front) | |
| Plastic | No |
| Aluminum | No |
| Stainless steel | Yes |
| Dimensions | |
| Width of the housing front | 330 mm |
| Height of housing front | 241 mm |
| Mounting cutout, width | 310 mm |
| Mounting cutout, height | 221 mm |
| Overall depth | 65 mm |
| Weights | |
| Weight (without packaging) | 4.2 kg |
| Weight (with packaging) | 4.9 kg |

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