SIEMENS

Data sheet

SIPLUS HMI TP1900 Comfort based on 6AV2124-0UC02-0AX1 with conformal coating, 0...+45 °C, Comfort Panel, touch operation, 19" widescreen TFT display, 16 million colors,PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, WEC 2013, configurable as of WinCC Comfort V14 SP1 with HSP



Figure similar

| Product type designation TP1900 Comfort | | |
|--|---|------------------------|
| Display Design of display Design of display Screen diagonal Display width 409.8 mm Display height 230.4 mm Number of colors 8677216 Resolution (pixels) • Horizontal image resolution • Vertical image resolution 1366 pixel • MTBF backlighting (at 25 °C) • Backlight dimmable Ves; 0-100 % Control eldmets Keyboard fonts • Function keys — Number of function keys — Number of function keys with LEDs • Keys with LED • System keys • Numeric keyboard • alphanumeric keyboard • alphanumeric keyboard • Direct keys (such buttons as S7 input I/O) Rounting for inadosape format possible Mounting in portrait format possible maximum permissible angle of inclination without external verification Type of supply voltage Rated value (DC) permissible range, upper limit (DC) 28.8 V | General information | |
| Design of display | <i></i> 0 | TP1900 Comfort |
| Screen diagonal 18.5 in Display width 499.8 mm Number of colors 16.777 216 Resolution (pixels) • Horizontal image resolution 7788 pixel Backlighting • MTBF backlighting (at 25 °C) 50 000 h • Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts • Function keys 0 - 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 • alphanumeric keyboard Yes; Onscreen keyboard • Design as touch screen Yes; Analog-resistive Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) Mounting in portrait format possible Yes maximum permissible angle of inclination without external vertiliation Type of supply voltage Rated value (DC) permissible range, upper limit (DC) 192 V permissible range, upper limit (DC) 28.8 V | Display | |
| Display width 499.8 mm Display height 230.4 mm Number of colors 16 777 216 Resolution (pixels) • Horizontal image resolution 1 366 pixel • Vertical image resolution 768 pixel Backlightting • MTBF backlightting (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 • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard • Design as touch screen Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) 40 Installation type/mounting Mounting in portrait format possible Yes Mounting in landscape format possible Yes maximum permissible angle of inclination without external verticals angle, lower limit (DC) Permissible range, upper limit (DC) 192.V permissible range, upper limit (DC) 192.V permissible range, upper limit (DC) 28.8 V | Design of display | TFT |
| Display height 230.4 mm Number of colors 16 777 216 Resolution (pixels) | Screen diagonal | 18.5 in |
| Number of colors Resolution (pixels) Horizontal image resolution Vertical image resolution Namber of colors Horizontal image resolution Vertical image resolution Namber of sexibility of the process Function keys Number of function keys Number of function keys with LEDs Keyboard fonts Resy with LED No System keys No Nore incirc keyboard Alphanumeric keyboard Alphanumeric keyboard Pesi, Onscreen keyboard Alphanumeric keyboard Pesi, Onscreen keyboard Pesi, Onscreen keyboard Pesi, Onscreen keyboard Touch operation Design as touch screen Expansions for operator control of the process Direct keys (touch buttons as \$7 input I/O) Mounting position Mounting in portrait format possible Mounting in Inandscape format possible maximum permissible angle of inclination without external verticals or supply voltage Type of supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, upper limit (DC) 28.8 V | Display width | 409.8 mm |
| Resolution (pixels) | Display height | 230.4 mm |
| Horizontal image resolution Vertical image resolution To 88 pixel Backlighting MTBF backlighting (at 25 °C) Backlight dimmable Ves; 0-100 % Control elements Keyboard fonts Function keys Number of function keys No Number of function keys No System keys No Numeric keyboard System keys No Numeric keyboard Pesign as touch screen Expansions for operator control of the process Direct keys (touch buttons as \$7 input I/O) Mounting in portrait format possible Mounting in portrait format possible Mounting in Inadscape format possible maximum permissible angle of inclination without external Supply voltage Type of supply voltage Type of supply voltage Femals in Insulation type (mouthing) Femals in Insulation type (mouthing) Nounting in Femals in Insulation Vesting Insulation Vesting Insulation Vesting Insulation Supply voltage Type of supply voltage Type of supply voltage Type of supply voltage Type of supply voltage Femals in Insulation (DC) Type of supply limit (DC) Permissible range, lower limit (DC) 28.8 V | Number of colors | 16 777 216 |
| Vertical image resolution Backlighting MTBF backlighting (at 25 °C) 50 000 h Pas; 0-100 % Control elements Keyboard fonts Function keys Number of function keys 0 Number of function keys with LEDs 0 System keys No No Numeric keyboard Yes; Onscreen keyboard alphanumeric keyboard Yes; Onscreen keyboard Pasign as buch screen Yes; Analog-resistive Expansions for operator control of the process Direct keys (buch buttons as S7 input I/O) 40 Mounting position Vertical Mounting in portrait format possible Yes Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, lower limit (DC) Pasign so not supply rolling limit (DC) Pasign in mind supplied in the process DC Rated value (DC) Permissible range, lower limit (DC) Permissible range, lower limit (DC) Pasign supplimines Supply voltage Pasign supprocess Pas | Resolution (pixels) | |
| Backlighting • MTBF backlighting (at 25 °C) • Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts • Function keys — Number of function keys — Number of function keys with LEDs • Keys with LED • System keys • Numeric keyboard • Numeric keyboard • System keys • No • Numeric keyboard • Design as touch screen • Design as touch screen • Direct keys (touch buttons as S7 input I/O) Mounting position Mounting position vertical Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) 28.8 V | Horizontal image resolution | 1 366 pixel |
| MTBF backlight (at 25 °C) Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts Function keys Number of function keys No Keys with LED No System keys No Numeric keyboard Alphanumeric keyboard Alphanumeric keyboard Pes; Onscreen keyboard Yes; Onscreen keyboard Alphanumeric keyboard Yes; Onscreen keyboard Touch operation Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting in portrait format possible Yes Mounting in portrait format possible Mounting in portrait format possible Yes Mounting in portrait format possible Alphanumeric keyboard Yes Mounting in portrait format possible Yes Mounting in portrait format possible DC Rated value (DC) Permissible range, lower limit (DC) 19.2 V Permissible range, upper limit (DC) 28.8 V | Vertical image resolution | 768 pixel |
| Backlight dimmable Ves; 0-100 % Control elements Keyboard fonts Function keys Number of function keys Number of function keys with LEDs Keys with LED Keys with LED No System keys No No No Numeric keyboard Alphanumeric keyboard Pesi; Onscreen keyboard Pesi; Onscreen keyboard Ves; Onscreen keyboard Pesign as touch screen Pesign as touch screen Pesign as touch screen Pesign as for operator control of the process Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Mounting in landscape format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Passing All Commands O Comman | Backlighting | |
| Control elements Keyboard fonts Function keys — Number of function keys — Number of function keys with LEDs 0 Keys with LED No System keys No No Numeric keyboard Pesi; Onscreen keyboard Pesi; Onscreen keyboard Touch operation Pesign as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Possible System Supply voltage (DC) Permissible range, upper limit (DC) Permissible r | MTBF backlighting (at 25 °C) | 50 000 h |
| Keyboard fonts • Function keys — Number of function keys — Number of function keys O No • Keys with LED No • System keys • Numeric keyboard • alphanumeric keyboard • alphanumeric keyboard • Design as touch screen Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) Mounting position Mounting in landscape format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, upper limit (DC) Possible range, upper limit (DC) | Backlight dimmable | Yes; 0-100 % |
| Function keys Number of function keys Number of function keys with LEDs Keys with LED No No No System keys No Numeric keyboard alphanumeric keyboard Design as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Mounting position Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Po No No No No No No No No No | Control elements | |
| Number of function keys Number of function keys with LEDs Number of function keys with LEDs Keys with LED Keys with LED No System keys Numeric keyboard Numeric keyboard Ves; Onscreen keyboard V | Keyboard fonts | |
| - Number of function keys with LEDs • Keys with LED • System keys • Numeric keyboard • alphanumeric keyboard • alphanumeric keyboard • Design as touch screen • Design as touch screen • Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Function keys | |
| Keys with LED System keys No Numeric keyboard Alphanumeric keyboard Yes; Onscreen keyboard Yes; Onscreen keyboard Touch operation Design as touch screen Yes; Analog-resistive Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) 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 vertiliation Supply voltage Type of supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V | Number of function keys | 0 |
| System keys Numeric keyboard Yes; Onscreen keyboard Touch operation Design as touch screen Yes; Analog-resistive Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Unstallation type/mounting Mounting position Vertical Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation Yes upply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) Permissible range, upper limit (DC) Pass Onscreen keyboard Yes; Onscreen keyboard Yes Analog-resistive Expansions of courselond Store Yes; Onscreen keyboard Yes; Onscreen | Number of function keys with LEDs | 0 |
| Numeric keyboard alphanumeric keyboard Yes; Onscreen keyboard Touch operation Design as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Wertical Mounting in portrait format possible Yes Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) 28.8 V | Keys with LED | No |
| alphanumeric keyboard Touch operation Design as touch screen Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Mounting in portrait format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | System keys | No |
| Touch operation Design as touch screen Yes; Analog-resistive Expansions for operator control of the process Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Mounting in portrait format possible Mounting in landscape format possible Tyes Mounting in landscape format possible Tyes Mounting permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Numeric keyboard | Yes; Onscreen keyboard |
| ◆ Design as touch screen Expansions for operator control of the process ◆ Direct keys (touch buttons as S7 input I/O) 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 Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) 28.8 V | alphanumeric keyboard | Yes; Onscreen keyboard |
| Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Vertical Mounting in portrait format possible Yes Mounting in landscape format possible Tyes maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Touch operation | |
| ● Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage DC Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Design as touch screen | Yes; Analog-resistive |
| Installation type/mounting Mounting position Mounting in portrait format possible Mounting in landscape format possible Maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Expansions for operator control of the process | |
| Mounting position Mounting in portrait format possible Yes Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Direct keys (touch buttons as S7 input I/O) | 40 |
| Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage DC Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Installation type/mounting | |
| Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage DC Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Mounting position | vertical |
| maximum permissible angle of inclination without external ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Mounting in portrait format possible | Yes |
| ventilation Supply voltage Type of supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Mounting in landscape format possible | Yes |
| 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 | | 35° |
| Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V | Supply voltage | |
| permissible range, lower limit (DC) permissible range, upper limit (DC) 28.8 V | Type of supply voltage | DC |
| permissible range, upper limit (DC) 28.8 V | Rated value (DC) | 24 V |
| F | permissible range, lower limit (DC) | 19.2 V |
| Input current | permissible range, upper limit (DC) | 28.8 V |
| | Input current | |

| Ourself constitute (c. 1. 1. 1.) | 47.4 |
|--|---|
| Current consumption (rated value) | 1.7 A |
| Starting current inrush I²t | 0.5 A ² ·s |
| Power | |
| Active power input, typ. | 41 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 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) | V |
| • TCP/IP | Yes |
| • DHCP | Yes |
| • SNMP | Yes |
| DCP LLDP | Yes Yes |
| ● LLDP WEB characteristics | 165 |
| HTTP | Yes |
| • HTTPS | Yes |
| • HTML | Yes |
| • ATML | Yes |
| • AIVIL • CSS | Yes |
| • Active X | Yes |
| Active X JavaScript | Yes |
| Java VM | No |
| Redundancy mode | 110 |
| Redultidation filloud | |

| Media redundancy | |
|---|---|
| — MRP | Yes |
| Further protocols | 165 |
| • CAN | No |
| MODBUS | Yes |
| Interrupts/diagnostics/status information | 160 |
| Diagnoses | |
| Diagnostic information readable | Yes; S7 controller |
| EMC | 100,010010101 |
| 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) | IP20 |
| NEMA (front) | |
| Enclosure Type 4 at the front | Yes |
| Enclosure Type 4x at the front | Yes |
| 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; = Tmin |
| For vertical installation, max. | 45 °C; = Tmax |
| Operation (max. tilt angle) | |
| — At maximum tilt angle, min. | 0 °C; = Tmin |
| — At maximum tilt angle, max. | 40 °C; = Tmax |
| Operation (vertical installation, portrait format) | |
| For vertical installation, min. | 0 °C; = Tmin |
| — For vertical installation, max. | 40 °C; = Tmax |
| Operation (max. tilt angle, portrait format) | |
| At maximum tilt angle, min. | 0 °C; = Tmin |
| — At maximum tilt angle, max. | 35 °C; = Tmax |
| Ambient temperature during storage/transportation | |
| • min. | -20 °C |
| • max. | 60 °C |
| Altitude during operation relating to sea level | |
| 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 under condensation conditions) |
| 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 |
| 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 60654-4 | Yes; Class 3 (excluding trichlorethylene) |
| 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 | Yes; Class 2 for high reliability |
| 61086 | |
| Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection |
| Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- | Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A |
| CC-830A | |
| 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 | |
| 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; 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, 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 | 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 Complex image objects | Yes |
| Complex image objects Number of complex objects per screen | 40 |
| Alarm view | Yes |
| Trend view Trend view | Yes |
| User view | Yes |
| Status/control | Yes |
| Status/control 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 |
| · · · | |

| North and Sandrian and Assal Rad | 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 | 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! | |
| • WinAC | YAS |
| ₹ WIII/NO | Yes |
| | Yes |
| • SINUMERIK | Yes Yes; With SINUMERIK option package as from WinCC V15 or higher |
| • SINUMERIK • SIMOTION | Yes Yes; With SINUMERIK option package as from WinCC V15 or higher Yes |
| SINUMERIKSIMOTIONAllen Bradley (EtherNet/IP) | Yes Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes Yes No |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids Backup/Restore manually | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| SINUMERIK SIMOTION Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) Modicon (Modbus) OPC UA Client OPC UA Server Service tools/configuration aids | Yes; With SINUMERIK option package as from WinCC V15 or higher Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes 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 | 483 mm |
| Height of housing front | 337 mm |
| Mounting cutout, width | 465 mm |
| Mounting cutout, height | 319 mm |
| Overall depth | 75 mm |
| Weights | |
| Weight (without packaging) | 5.6 kg |

last modified:

10/7/2021

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