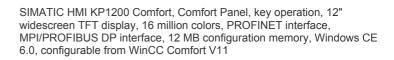
Data sheet

6AV2124-1MC01-0AX0





| Product type designation KP1200 Comfort 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) 4 Horizontal image resolution 5 Vertical image resolution 800 pixel Backlighting 6 MTBF backlighting (at 25 °C) 8 Backlight dimmable 7 Ves; 0-100 % Control elements Keyboard fonts 7 Function keys Number of function keys with LEDs 8 Keys with LED 9 System keys Number of function keys with LEDs 8 System keys Numeric keyboard 9 alphanumeric keyboard 9 Lesign as touch screen Expansions for operator control of the process 9 Diffect LEDs (LEDs as \$7 output I/O) F1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P1Fx 9 Direct keys (touch buttons as \$7 input I/O) P5 Direct keys (touch buttons as \$7 input I/O) P6 Direct keys (touch buttons as \$7 input I/O) P7 Direct keys (touch buttons as \$7 input I/O) No Mounting in portrait format possible Mounting on landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape format possible | General information | |
|--|--|------------------------------|
| Design of display | Product type designation | KP1200 Comfort |
| Screen diagonal 12.1 in | Display | |
| Display width Display height Display | Design of display | TFT |
| Display height Number of colors Resolution (pixels) Horizontal image resolution Vertical image resolution Number of vertical image resolution Number of vertical image resolution Backlighting MTBF backlighting (at 25 °C) Backlight dimmable Ves; 0-100 % Control elements Keyboard fonts Function keys Number of function keys Number of function keys Number of function keys with LEDs System keys Number of ves; o-100 % Neys with LED Yes System keys Yes Numeric keyboard Yes; similar to mobile phone Touch operation Design as touch screen No; without Expansions for operator control of the process Defined LEDs (LEDs as S7 output I/O) F1Fx Direct keys (keys as S7 input I/O) F1Fx Direct keys (keys as S7 input I/O) OF1Fx Direct keys (touch buttons as S7 input I/O) OF1Fx Direct keys (touch buttons as S7 input I/O) No Mounting position Wertical Mounting in portrait format possible No Mounting in landscape format possible maximum permissible angle of inclination without external veriliation No | Screen diagonal | 12.1 in |
| Number of colors Resolution (pixels) Horizontal image resolution Vertical image resolution Number of colors Horizontal image resolution Normal Sacklighting Normal Sacklighting Horizontal image resolution Horizontal image resolution Normal Sacklighting Horizontal image resolution Horizontal image resolution Normal Sacklighting Horizontal image resolution Normal Sacklighting Normal Sacklighting Horizontal image resolution Normal Sacklighting Horizontal image resolution Horizontal image resolution Normal Sacklighting Normal Sacklighting Horizontal image resolution Normal Sacklighting Horizontal image resolution Normal Sacklighting Horizontal image resolution Normal Sacklighting Normal Sacklig | Display width | 261.1 mm |
| Resolution (pixels) • Horizontal image resolution • Vertical image resolution • Vertical image resolution 800 pixel • MTBF backlighting (at 25 °C) • 80 000 h • Backlight dimmable Control elements Keyboard fonts • Function keys — Number of function keys — Number of function keys with LEDs 34 • Keys with LED Yes • System keys • Numeric keyboard Yes • Numeric keyboard Yes • Alphanumeric keyboard Yes; similar to mobile phone Touch operation • Design as touch screen No; without Expansions for operator control of the process • DP direct LEDs (LEDs as S7 output I/O) — F1FX Direct keys (keys as S7 input I/O) — F1FX • Direct keys (touch buttons as S7 input I/O) 0 Installation type/mounting Mounting position Wall mounting/direct mounting No Mounting in portrait format possible No Mounting in landscape format possible No maximum permissible angle of inclination without external ventilation | Display height | 163.2 mm |
| Horizontal image resolution Vertical image resolution Not TBF backlighting (at 25 °C) Backlighting (at 25 °C) 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 System keys System keys Numeric keyboard Yes System keys Numeric keyboard Yes; similar to mobile phone Touch operation Design as touch screen Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) -F1FX Direct keys (keys as S7 input I/O) -F1FX Direct keys (touch buttons as S7 input I/O) -F1FX Noting to the process Well mounting foil freet mounting Mounting position Vertical Wall mounting/direct mounting Mounting in portrait format possible maximum permissible angle of inclination without external vertical Noting Mounting permissible angle of inclination without external vertical Noting Mounting permissible angle of inclination without external vertical Noting position Vertical Noting posit | Number of colors | 16 777 216 |
| Vertical image resolution Backlighting MTBF backlighting (at 25 °C) 80 000 h Backlight dimmable Ves; 0-100 % Control elements Keyboard fonts Function keys Number of function keys 34 Number of function keys 49 49 49 49 49 49 49 49 49 49 49 49 49 | 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 System keys Numeric keyboard Alphanumeric keyboard Alphanumeric keyboard Pes; similar to mobile phone Touch operation Design as touch screen No; without Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) F1Fx Alphanumeric keys (seys as S7 input I/O) F1Fx Direct keys (touch buttons as S7 input I/O) Distallation type/mounting Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Mounting in solution inclination without external ventilation Mounting in landscape format possible maximum permissible angle of inclination without external ventilation | Horizontal image resolution | 1 280 pixel |
| 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 System keys Numeric keyboard Alphanumeric keyboard Alphanumeric keyboard Pesign as touch screen Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) F1Fx Direct keys (keys as S7 input I/O) F1Fx Direct keys (touch buttons as S7 input I/O) Mounting position Mounting position Mounting in landscape format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Well maximum permissible angle of inclination without external ventilation Well maximum permissible angle of inclination without external ventilation Mounting permissible angle of inclination without external ventilation Well maximum permissible angle of inclination without external ventilation Mounting permissible angle of inclination without external ventilation ventilation Mounting permissible angle of inclination without external ventilation ventilation ventilation ventilation ventilation ventilation ventilation ventilation venti | Vertical image resolution | 800 pixel |
| Backlight dimmable Control elements Keyboard fonts Function keys Number of function keys Number of function keys with LEDs System keys Numeric keyboard Alphanumeric keyboard Design as touch screen Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) F1Fx Direct keys (keys as S7 input I/O) F1Fx Direct keys (keys as S7 input I/O) F1Fx Direct keys (touch buttons as S7 input I/O) F1Fx Direct keys (touch buttons as S7 input I/O) F1Fx Mounting position Vertical Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in portrait format poss | | |
| Keyboard fonts Function keys Number of function keys Number of function keys with LEDs Keys with LED Keys with LED System keys Numeric keyboard Alphanumeric keyboard Design as touch screen Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) F1Fx Direct keys (keys as S7 input I/O) F1Fx Direct keys (touch buttons as S7 input I/O) F1Fx Direct keys (touch buttons as S7 input I/O) F1Fx Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in portrait format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in portrait format possible Mounting in landscape format possible Mounting in portrait format possible Mounting | | 80 000 h |
| Function keys | | Yes; 0-100 % |
| Function keys Number of function keys Number of function keys with LEDs Keys with LED System keys Numeric keyboard Indicate the process Design as touch screen Expansions for operator control of the process Design as touch screen No; without Expansions for operator control of the process Design as touch screen FiFx Direct keys (keys as S7 input I/O) FiFx Direct keys (touch buttons as S7 input I/O) Direct keys (touch buttons as S7 input I/O) No Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Ves Mounting to still and the process of the process o | Control elements | |
| Number of function keys 34 Number of function keys with LEDs 34 Keys with LED Yes System keys Yes Numeric keyboard Yes Alphanumeric keyboard Yes; similar to mobile phone Touch operation Design as touch screen No; without Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) F1Fx 34 Direct keys (keys as S7 input I/O) F1Fx 34 Direct keys (touch buttons as S7 input I/O) F1Fx 34 Direct keys (touch buttons as S7 input I/O) F1Fx Note theys (touch buttons as S7 input I/O) F1Fx Note theys (touch buttons as S7 input I/O) F1Fx Note theys (touch buttons as S7 input I/O) F1Fx Note theys (touch buttons as S7 input I/O) F1Fx Note theys (touch buttons as S7 input I/O) F1Fx Note theys (touch buttons as S7 input I/O) F1Fx Note theys (touch buttons as S7 input I/O) F1Fx Note theys (touch buttons as S7 input I/O) F1Fx Note they they form they f | Keyboard fonts | |
| - Number of function keys with LEDs • Keys with LED • System keys • Numeric keyboard • alphanumeric keyboard • Design as touch screen • Design as touch screen • De direct LEDs (LEDs as S7 output I/O) — F1Fx • Direct keys (keys as S7 input I/O) — F1Fx • 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 | Function keys | |
| Keys with LED System keys Numeric keyboard Yes Numeric keyboard Yes; similar to mobile phone Touch operation Design as touch screen No; without Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) —F1Fx 34 Direct keys (keys as S7 input I/O) —F1Fx 34 Direct keys (touch buttons as S7 input I/O) 0 Installation type/mounting Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation | — Number of function keys | 34 |
| System keys Numeric keyboard Yes alphanumeric keyboard Yes; similar to mobile phone Touch operation Design as touch screen No; without Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) —F1Fx 34 Direct keys (keys as S7 input I/O) —F1Fx 34 Direct keys (touch buttons as S7 input I/O) 0 Installation type/mounting Mounting position Vertical Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Yes Yes Yes Yes Yes Yes Yes Ye | Number of function keys with LEDs | 34 |
| Numeric keyboard alphanumeric keyboard Yes; similar to mobile phone Touch operation Design as touch screen No; without Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) F1Fx Direct keys (keys as S7 input I/O) F1Fx Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible Mounting maximum permissible angle of inclination without external ventilation | Keys with LED | Yes |
| alphanumeric keyboard Touch operation Design as touch screen No; without Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) -F1Fx Direct keys (keys as S7 input I/O) -F1Fx Direct keys (touch buttons as S7 input I/O) 0 Installation type/mounting Mounting position Wall mounting/direct mounting Mo Mounting in portrait format possible Mo Mounting in landscape format possible maximum permissible angle of inclination without external ventilation | System keys | Yes |
| Touch operation Design as touch screen No; without Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) —F1Fx Direct keys (keys as S7 input I/O) —F1Fx Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Vertical Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation | Numeric keyboard | Yes |
| Design as touch screen No; without Expansions for operator control of the process DP direct LEDs (LEDs as S7 output I/O) —F1Fx 34 Direct keys (keys as S7 input I/O) —F1Fx 34 Direct keys (touch buttons as S7 input I/O) DInstallation type/mounting Mounting position Vertical Wall mounting/direct mounting No Mounting in portrait format possible No Mounting in landscape format possible maximum permissible angle of inclination without external ventilation No; without Au No; without No 34 ○ Direct keys (touch buttons as S7 input I/O) ○ Unstallation type/mounting No No Mounting position Vertical No Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape format possible Mounting in landscape of inclination without external ventilation | - | Yes; similar to mobile phone |
| Expansions for operator control of the process • DP direct LEDs (LEDs as S7 output I/O) — F1Fx • Direct keys (keys as S7 input I/O) — F1Fx • Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation | · | |
| DP direct LEDs (LEDs as S7 output I/O) — F1Fx | | No; without |
| - F1Fx ■ Direct keys (keys as S7 input I/O) - F1Fx ■ Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation 34 34 ■ Direct keys (keys as S7 input I/O) 0 Installation type/mounting No No No Mounting position Yes maximum permissible angle of inclination without external ventilation | | |
| Direct keys (keys as S7 input I/O) —F1Fx 34 Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Possible | | |
| — F1Fx ■ Direct keys (touch buttons as S7 input I/O) Installation type/mounting Mounting position Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation 34 Vertical No No 34 Vertical No So Vertical No So Mounting in portrait format possible Yes maximum permissible angle of inclination without external ventilation | | 34 |
| ● Direct keys (touch buttons as S7 input I/O) 0 Installation type/mounting Mounting position vertical Wall mounting/direct mounting No Mounting in portrait format possible No Mounting in landscape format possible Yes maximum permissible angle of inclination without external ventilation ● Direct keys (touch buttons as S7 input I/O) ● Vertical No So Yes 35° | Direct keys (keys as S7 input I/O) | |
| Installation type/mounting Mounting position Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Vertical No No 35° | — F1Fx | |
| Mounting position Wall mounting/direct mounting No Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation vertical No No 35° | | 0 |
| Wall mounting/direct mounting Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation No Yes 35° | Installation type/mounting | |
| Mounting in portrait format possible Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Yes 35° | | vertical |
| Mounting in landscape format possible maximum permissible angle of inclination without external ventilation Yes 35° | Wall mounting/direct mounting | No |
| maximum permissible angle of inclination without external ventilation 35° | | No |
| ventilation | | Yes |
| Supply voltage | | 35° |
| | Supply voltage | |

| Tune of complex with | DC |
|--|---|
| 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) | 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 | Yes |
| 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 | 1; 2 ports (switch) |
| 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 | 1; 5-pole |
| 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 No |
| Industrial Ethernet | |
| Industrial Ethernet status LED | 2 |
| Number of ports of the integrated switch | 2 |
| Protocols | |
| PROFINET | Yes |
| Supports protocol for PROFINET IO | Yes |
| IRT | Yes; As of WinCC V12 |
| 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; As of WinCC V12 |
| 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 | |
| | IDEE |
| IP (at the front) | IP65 |
| IP (rear) | IP20 |
| NEMA (front) | V |
| 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 |
| Use in hazardous areas | |
| 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 |
| FM Class I Division 2 | Yes |
| Marine approval | |
| Germanischer Lloyd (GL) | Yes; As of product version: 10 |
| American Bureau of Shipping (ABS) | Yes; As of product version: 10 |
| Bureau Veritas (BV) | Yes; As of product version: 10 |
| Det Norske Veritas (DNV) | Yes; As of product version: 10 |
| Lloyds Register of Shipping (LRS) | Yes; As of product version: 10 |
| Nippon Kaiji Kyokai (Class NK) | Yes; As of product version: 10 |
| Polski Rejestr Statkow (PRS) | No |
| Ambient conditions | |
| Ambient temperature during operation | |
| Operation (vertical installation) | |
| — For vertical installation, min. | 0 °C |
| — For vertical installation, max. | 50 °C; (55 °C, see entry ID: 64847814) |
| 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, mill. | |

| At maximum tilt anala, may | 35 °C |
|--|------------------------|
| — At maximum tilt angle, max. Ambient temperature during storage/transportation | 33 C |
| Ambient temperature during storage/transportation min. | -20 °C |
| • max. | -20 °C |
| Relative humidity | 00 0 |
| Operation, max. | 90 %; no condensation |
| Operating systems | oo 76, He condendation |
| proprietary | No |
| pre-installed operating system | 140 |
| Windows CE | Yes |
| configuration / header | 1.30 |
| 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; from V11 |
| WinCC Advanced (TIA Portal) | Yes; from V11 |
| WinCC Professional (TIA Portal) | Yes; from V11 |
| 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 |
| Help system | 70 |
| Number of characters per info text | 70 |
| Message system | 22 |
| Number of alarm classes Dit massages | 32 Van |
| Bit messages Number of hit messages | Yes |
| — Number of bit messages | 4 000 Voc |
| Analog messages Number of analog messages | Yes |
| Number of analog messages S7 alarm number procedure | 200 Yes |
| S7 alarm number procedure System messages HMI | Yes |
| System messages HMISystem event, more (SIMATIC S7, SINUMERIK, | Yes |
| • System event, more (SIMATIC 57, SINUMERIK, SIMOTION,) | 165 |
| Number of characters per message | 80 |
| Number of process values per message | 8 |
| Acknowledgment groups | Yes |
| | |

| Message indicator | Yes |
|---|------------|
| Message Indicator Message buffer | |
| Number of entries | 1 024 |
| Circulating buffer | Yes |
| — retentive | Yes |
| — maintenance-free | Yes |
| Recipe management | 166 |
| 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 |
| 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 | |
| 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 |
| Complex image objects | 22 |
| Number of complex objects per screen | 20 |
| Alarm view Trand view | Yes |
| • Trend view | Yes |
| User view Status/control | Yes |
| Status/control Sm@rtClient view | Yes |
| Sm@rtClient view Pegine view | Yes |
| Recipe view f(x) trand view | Yes Yes |
| f(x) trend viewSystem diagnostics view | Yes |
| System diagnostics view 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 | |
| Number of archives per device | 50 |
| Number of entries per archive | 20 000 |
| 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! | Yes |
| WinAC | Yes |
| • SINUMERIK | Yes; with SINUMERIK option package |
| | |
| • SIMOTION | Yes |
| SIMOTIONAllen Bradley (EtherNet/IP) | · · · · · |
| | Yes |
| Allen Bradley (EtherNet/IP)Allen Bradley (DF1) | Yes Yes |
| Allen Bradley (EtherNet/IP)Allen Bradley (DF1)Mitsubishi (MC TCP/IP) | Yes Yes Yes |
| Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) | Yes Yes Yes Yes |
| Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) | Yes Yes Yes Yes Yes Yes |
| Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) | Yes Yes Yes Yes Yes Yes No |
| Allen Bradley (EtherNet/IP) Allen Bradley (DF1) Mitsubishi (MC TCP/IP) Mitsubishi (FX) OMRON (FINS TCP) OMRON (LINK/Multilink) Modicon (Modbus TCP/IP) | Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| 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 Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes |
| 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 Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes |
| 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 Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes |
| 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 Yes Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes |
| 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 Yes Yes Yes Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes |
| 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 Yes Yes Yes Yes Yes No 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 | 454 mm |
| Height of housing front | 289 mm |
| Mounting cutout, width | 434 mm |
| Mounting cutout, height | 269 mm |
| Overall depth | 65 mm |
| Weights | |
| Weight (without packaging) | 4.4 kg |
| Weight (with packaging) | 5.7 kg |

last modified: 1/24/2022 🖸