

SIMATIC HMI KP1200 COMFORT,
COMFORT PANEL, KEY OPERATION,
12" WIDESCREEN-TFT-DISPLAY,
16 MIL. COLORS, PROFINET INTERFACE,
MPI/PROFIBUS DP INTERFACE,
12 MB USER MEMORY, WINDOWS CE 6.0,
CONFIGURABLE FROM WINCC COMFORT V11



| Display | |
|------------------------------|---------------|
| Design of display | TFT |
| Screen diagonal | 12.1 in |
| Display width | 261.1 mm |
| Display height | 163.2 mm |
| Number of colors | 16777216 |
| Resolution (pixels) | |
| horizontal image resolution | 1280 |
| vertical image resolution | 800 |
| Backlighting | |
| MTBF backlighting (at 25 °C) | 80000 h |
| Backlight dimmable | Yes ; 0-100 % |
| Control elements | |
| Keyboard fonts | |
| Number of function keys | 34 |
| Keys with LED | Yes |
| System keys | Yes |
| Numeric/alphabetical input | |
| Numeric keyboard | Yes |

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|-------------------------------------------------------|-------------------------------|
| alphanumeric keyboard | Yes ; similar to mobile phone |
| Touch operation | |
| Design as touch screen | No |
| Expansions for operator control of the process | |
| DP direct LEDs (LEDs as S7 output I/O) | |
| F1...Fx | 34 |
| Direct keys (keys as S7 input I/O) | |
| F1...Fx | 34 |
| Direct keys (touch buttons as S7 input I/O) | 0 |
| Installation type/mounting | |
| Mounting in portrait format possible | No |
| Mounting in landscape format possible | Yes |
| 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) | 0.85 A |
| Inrush current A ² s | 0.5 A ² s |
| Power | |
| Power consumption, typ. | 20 W |
| Processor | |
| Processor type | |
| X86 | Yes |
| ARM | No |
| Memory | |
| Flash | Yes |
| RAM | Yes |
| usable memory 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 clock) | Yes |
| Software clock | No |
| battery-backed | Yes ; Back-up duration typically 6 weeks |
| synchronizable | Yes |
| Interfaces | |
| Number of RS 485 interfaces | 1 ; RS 422/485 combined |
| Number of USB interfaces | 2 ; USB 2.0 |
| Number of USB Mini B interfaces | 1 ; 5-pole |
| Number of SD card slots | 2 |
| Number of parallel interfaces | 0 |
| Number of 20 mA interfaces (TTY) | 0 |
| Number of RS 232 interfaces | 0 |
| Number of RS 422 interfaces | 1 |
| Number of other interfaces | 0 |
| With software interfaces | No |
| Industrial Ethernet | |
| Number of industrial Ethernet interfaces | 2 |
| Industrial Ethernet status LED | 2 |
| Number of ports of the integrated switch | 2 |
| Protocols | |
| PROFINET | Yes |
| PROFINET IO | Yes |
| IRT, supported | Yes ; As of WinCC V12 |
| MRP supported | Yes ; As of WinCC V12 |
| PROFIBUS | Yes |
| MPI | Yes |
| Protocols (Ethernet) | |
| TCP/IP | Yes |
| DHCP | Yes |
| SNMP | Yes |
| DCP | Yes |
| LLDP | Yes |
| WEB characteristics | |
| HTTP | Yes |
| HTTPS | No |
| HTML | Yes |
| XML | No |
| CSS | Yes |

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|-------------------------------------------------------------------------|---------------------------------|
| Active X | No |
| JavaScript | Yes |
| Java VM | No |
| Further protocols | |
| CAN | No |
| MODBUS | Yes |
| EtherNet/IP | Yes |
| EMC | |
| Emission of radio interference acc. to EN 55 011 | |
| Emission of radio interference acc. to EN 55 011 (limit class A) | Yes |
| Emission of radio interference acc. to EN 55 011 (limit class B) | No |
| Degree and class of protection | |
| IP (at the front) | IP65 |
| Enclosure Type 4 at the front | Yes |
| Enclosure Type 4x at the front | Yes |
| IP (rear) | IP20 |
| Standards, approvals, certificates | |
| CE mark | Yes |
| KC approval | Yes |
| cULus | Yes |
| RCM (former C-TICK) | 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 |
| Use in hazardous areas | |
| ATEX Zone 2 | Yes |
| ATEX Zone 22 | Yes |
| IECEX Zone 2 | Yes ; Available soon |
| IECEX Zone 22 | Yes ; Available soon |
| cULus Class I Zone 1 | No |
| cULus Class I Zone 2, Division 2 | Yes |
| FM Class I Division 2 | Yes |

| Ambient conditions | |
|-----------------------------------------------------------------------|----------------------------------------|
| Mounting position | vertical |
| maximum permissible angle of inclination without external ventilation | 35 ° |
| Operating temperature | |
| Operation (vertical installation) | |
| in vertical mounting position, minimum | 0 °C |
| in vertical mounting position, maximum | 50 °C ; (55 °C, see entry ID:64847814) |
| Operation (max. tilt angle) | |
| at maximum tilt angle, minimum | 0 °C |
| at maximum tilt angle, maximum | 40 °C |
| Operation (vertical installation, portrait format) | |
| in vertical mounting position, minimum | 0 °C |
| in vertical mounting position, maximum | 40 °C |
| Operation (max. tilt angle, portrait format) | |
| at maximum tilt angle, minimum | 0 °C |
| at maximum tilt angle, maximum | 35 °C |
| Storage/transport temperature | |
| min. | -20 °C |
| max. | 60 °C |
| Relative humidity | |
| Operation, max. | 90 % |
| Operating systems | |
| Windows CE | Yes |
| proprietary | No |
| Executable with configuration operating system | |
| other | No |
| Configuration | |
| Message indicator | Yes |
| With alarm logging system (incl. buffer and acknowledgment) | Yes |
| Process value display (output) | Yes |
| Process value default (input) possible | Yes |
| Recipe administration | 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 |

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|-----------------------------------------------|----------------|
| 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 |
| Project languages | |
| D | Yes |
| GB | Yes |
| F | Yes |
| I | Yes |
| E | Yes |
| Chinese traditional | Yes |
| Chinese simplified | Yes |
| DK | Yes |
| FIN | Yes |
| GR | Yes |
| J | Yes |
| KP/ROK | Yes |
| NL | Yes |
| N | Yes |
| PL | Yes |
| P | Yes |
| RUS | Yes |
| S | Yes |
| CZ | Yes |
| SK | Yes |
| TR | Yes |
| H | Yes |
| Functionality under WinCC (TIA Portal) | |
| Libraries | Yes |
| Applications/options | |
| Internet Explorer | Yes |
| Pocket Word | Yes |
| Pocket Excel | Yes |
| PDF Viewer | Yes |

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| 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 | |
| Number of characters per info text | 70 |
| Message system | |
| Number of alarm classes | 32 |
| Number of bit messages | 4000 |
| Number of analog messages | 200 |
| S7 alarm number procedure | Yes |
| System messages HMI | Yes |
| System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) | Yes |
| Number of characters per message | 80 |
| Number of process values per message | 8 |
| Acknowledgment groups | Yes |
| Message indicator | Yes |
| Message buffer | |
| Number of entries | 1024 |
| Circulating buffer | Yes |
| retentive | Yes |
| maintenance-free | Yes |
| Recipe administration | |
| Number of recipes | 300 |
| Data records per recipe | 500 |
| Entries per data record | 1000 |
| Size of internal recipe memory | 2 Mbyte |
| Recipe memory expandable | Yes |
| Variables | |
| Number of variables per device | 2048 |
| 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 |
| Start screen configurable | 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 |
| Switch | 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 |
| 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 | 20000 |
| 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 |
| Fonts | |
| Tahoma | Yes |
| Arial | Yes |
| Courier New | Yes |
| WinCC Standard | Yes |
| Ideographic languages | Yes |
| Font size freely scalable | Yes |
| additional character sets loadable | Yes |
| Transfer (upload/download) | |

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|-----------------------------------------|-------------------------------------|
| MPI/PROFIBUS DP | Yes |
| USB | Yes |
| Ethernet | Yes |
| using external storage medium | No |
| Process coupling | |
| S7-1200 | Yes |
| S7-1500 | Yes |
| S7-200 | Yes |
| S7-300/400 | Yes |
| LOGO! | Yes |
| WinAC | Yes |
| SINUMERIK | Yes |
| SIMOTION | No ; With WinCC, subsequent version |
| 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 | No |
| Service tools/configuration aids | |
| Clean screen | No |
| Touch calibration | No |
| Backup/Restore manually | Yes |
| Backup/Restore automatically | Yes |
| Simulation | Yes |
| Device switchover | Yes |
| Delta transfer | Yes |
| Peripherals/Options | |
| Peripherals | |
| Printer | Yes |
| Multimedia Card | Yes |
| SD card | Yes |
| USB memory | Yes |
| Network camera | Yes |
| Mechanics/material | |

| | |
|------------------------------------------|--------------|
| Type of housing (front) | |
| Plastic | No |
| Aluminum | Yes |
| Stainless steel | No |
| Dimensions | |
| Width of the housing front | 454 mm |
| Height of housing front | 289 mm |
| Mounting cutout/device depth (W x H x D) | |
| Mounting cutout, width | 434 mm |
| Mounting cutout, height | 269 mm |
| Overall depth | 65 mm |
| Weights | |
| Weight without packaging | 4.4 kg |
| Weight incl. packaging | 5.7 kg |
| Status | Jul 30, 2014 |