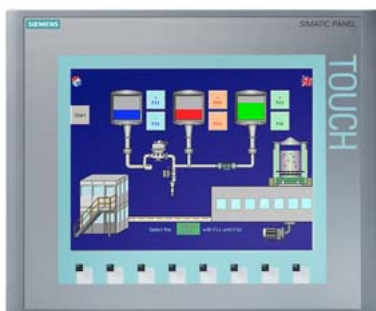




SIMATIC HMI KTP1000 Basic Color DP, Basic Panel, Key/touch operation, 10" TFT display, 256 colors, MPI/PROFIBUS DP interface, configurable as of WinCC flexible 2008 SP2 Compact/ WinCC Basic V11/ STEP 7 Basic V11, contains open-source software, which is provided free of charge see enclosed CD

| General information                                                   |                        |
|-----------------------------------------------------------------------|------------------------|
| Product type designation                                              | KTP1000 Basic color DP |
| Display                                                               |                        |
| Design of display                                                     | TFT                    |
| Screen diagonal                                                       | 10.4 in                |
| Display width                                                         | 211.2 mm               |
| Display height                                                        | 158.4 mm               |
| Number of colors                                                      | 256                    |
| Resolution (pixels)                                                   |                        |
| • Horizontal image resolution                                         | 640 pixel              |
| • Vertical image resolution                                           | 480 pixel              |
| Backlighting                                                          |                        |
| • MTBF backlighting (at 25 °C)                                        | 50 000 h               |
| • Backlight dimmable                                                  | No                     |
| Control elements                                                      |                        |
| Keyboard fonts                                                        |                        |
| • Function keys                                                       |                        |
| — Number of function keys                                             | 8                      |
| — 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; Analog-resistive  |
| Installation type/mounting                                            |                        |
| Mounting position                                                     | vertical               |
| Rack mounting                                                         | No                     |
| 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 | 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                                                         |                        |
| Current consumption (rated value)                                     | 0.6 A                  |
| Starting current inrush I <sub>t</sub>                                | 0.2 A <sup>2</sup> s   |

|                                                  |                           |
|--------------------------------------------------|---------------------------|
| <b>Power</b>                                     |                           |
| Active power input, typ.                         | 15 W                      |
| <b>Processor</b>                                 |                           |
| Processor type                                   | RISC 32 bit               |
| <b>Memory</b>                                    |                           |
| Flash                                            | Yes                       |
| RAM                                              | Yes                       |
| Memory available for user data                   | 2 Mbyte                   |
| <b>Type of output</b>                            |                           |
| Acoustics                                        |                           |
| • Buzzer                                         | Yes                       |
| • Speaker                                        | No                        |
| <b>Time of day</b>                               |                           |
| Clock                                            |                           |
| • Hardware clock (real-time)                     | No                        |
| • Software clock                                 | Yes                       |
| • retentive                                      | No                        |
| • synchronizable                                 | Yes                       |
| <b>Interfaces</b>                                |                           |
| Number of industrial Ethernet interfaces         | 0                         |
| Number of RS 485 interfaces                      | 1                         |
| Number of RS 422 interfaces                      | 1                         |
| Number of RS 232 interfaces                      | 0                         |
| Number of USB interfaces                         | 0                         |
| Number of 20 mA interfaces (TTY)                 | 0                         |
| Number of parallel interfaces                    | 0                         |
| Number of other interfaces                       | 0                         |
| Number of SD card slots                          | 0                         |
| With software interfaces                         | No                        |
| Industrial Ethernet                              |                           |
| • Industrial Ethernet status LED                 | 0                         |
| <b>Protocols</b>                                 |                           |
| PROFINET                                         | No                        |
| Supports protocol for PROFINET IO                | No                        |
| IRT                                              | No                        |
| PROFIBUS                                         | Yes                       |
| EtherNet/IP                                      | No                        |
| MPI                                              | Yes                       |
| Protocols (Ethernet)                             |                           |
| • TCP/IP                                         | No                        |
| • DHCP                                           | No                        |
| • SNMP                                           | No                        |
| • DCP                                            | No                        |
| • LLDP                                           | No                        |
| WEB characteristics                              |                           |
| • HTTP                                           | No                        |
| • HTML                                           | No                        |
| Further protocols                                |                           |
| • CAN                                            | No                        |
| • MODBUS                                         | Yes; Modicon (MODBUS RTU) |
| <b>Interrupts/diagnostics/status information</b> |                           |
| Diagnoses                                        |                           |
| • Diagnostic information readable                | No                        |
| <b>Degree and class of protection</b>            |                           |
| IP (at the front)                                | IP65                      |
| IP (rear)                                        | IP20                      |
| NEMA (front)                                     |                           |
| • Enclosure Type 4 at the front                  | Yes                       |
| • Enclosure Type 4x at the front                 | Yes                       |
| <b>Standards, approvals, certificates</b>        |                           |
| CE mark                                          | Yes                       |

|                                                   |                                              |
|---------------------------------------------------|----------------------------------------------|
| cULus                                             | Yes                                          |
| RCM (formerly C-TICK)                             | Yes                                          |
| KC approval                                       | Yes                                          |
| <b>Use in hazardous areas</b>                     |                                              |
| • ATEX Zone 2                                     | No                                           |
| • ATEX Zone 22                                    | No                                           |
| • cULus Class I Zone 1                            | No                                           |
| • cULus Class I Zone 2, Division 2                | No                                           |
| • FM Class I Division 2                           | No                                           |
| <b>Marine approval</b>                            |                                              |
| • Germanischer Lloyd (GL)                         | Yes                                          |
| • American Bureau of Shipping (ABS)               | Yes                                          |
| • Bureau Veritas (BV)                             | Yes                                          |
| • Det Norske Veritas (DNV)                        | Yes                                          |
| • Lloyds Register of Shipping (LRS)               | Yes                                          |
| • Nippon Kaiji Kyokai (Class NK)                  | Yes                                          |
| • Polski Rejestr Statkow (PRS)                    | No                                           |
| <b>Ambient conditions</b>                         |                                              |
| 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                                        |
| Ambient temperature during storage/transportation |                                              |
| • min.                                            | -20 °C                                       |
| • max.                                            | 60 °C                                        |
| Relative humidity                                 |                                              |
| • Operation, max.                                 | 90 %; no condensation                        |
| <b>Operating systems</b>                          |                                              |
| proprietary                                       | Yes                                          |
| pre-installed operating system                    |                                              |
| • Windows CE                                      | No                                           |
| <b>configuration / header</b>                     |                                              |
| 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)                       | Yes; via integrated WinCC Basic (TIA Portal) |
| • STEP 7 Professional (TIA Portal)                | Yes; via integrated WinCC Basic (TIA Portal) |
| • WinCC flexible Compact                          | Yes                                          |
| • WinCC flexible Standard                         | Yes                                          |
| • WinCC flexible Advanced                         | Yes                                          |
| • WinCC Basic (TIA Portal)                        | Yes                                          |
| • WinCC Comfort (TIA Portal)                      | Yes                                          |
| • WinCC Advanced (TIA Portal)                     | Yes                                          |
| • WinCC Professional (TIA Portal)                 | Yes                                          |
| <b>Languages</b>                                  |                                              |
| Online languages                                  |                                              |
| • Number of online/runtime languages              | 5                                            |
| Project languages                                 |                                              |
| • Languages per project                           | 32                                           |
| <b>Functionality under WinCC (TIA Portal)</b>     |                                              |
| Libraries                                         | Yes                                          |
| Applications/options                              |                                              |
| • Web browser                                     | No                                           |
| • SIMATIC WinCC Sm@rtServer                       | No                                           |
| Task planner                                      |                                              |
| • time-controlled                                 | No                                           |
| • task-controlled                                 | Yes                                          |

|                                                              |          |
|--------------------------------------------------------------|----------|
| Message system                                               |          |
| • Number of alarm classes                                    | 32       |
| • Bit messages                                               | Yes      |
| — Number of bit messages                                     | 200      |
| • Analog messages                                            | Yes      |
| — Number of analog messages                                  | 15       |
| • System messages HMI                                        | Yes      |
| • System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ... ) | No       |
| • Number of characters per message                           | 80       |
| • Number of process values per message                       | 8        |
| • Message indicator                                          | Yes      |
| • Message buffer                                             |          |
| — Number of entries                                          | 256      |
| — Circulating buffer                                         | Yes      |
| — retentive                                                  | Yes      |
| — maintenance-free                                           | Yes      |
| Recipe management                                            |          |
| • Number of recipes                                          | 5        |
| • Data records per recipe                                    | 20       |
| • Entries per data record                                    | 20       |
| • Size of internal recipe memory                             | 40 kbyte |
| • Recipe memory expandable                                   | No       |
| Variables                                                    |          |
| • Number of variables per device                             | 500      |
| • Number of variables per screen                             | 30       |
| • Limit values                                               | Yes      |
| • Multiplexing                                               | Yes      |
| • Structures                                                 | No       |
| • Arrays                                                     | Yes      |
| Images                                                       |          |
| • Number of configurable images                              | 50       |
| • Permanent window/default                                   | Yes      |
| • Global image                                               | Yes      |
| • Image selection by PLC                                     | Yes      |
| • Image number in the PLC                                    | Yes      |
| Image objects                                                |          |
| • Number of objects per image                                | 30       |
| • 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                       | 5        |
| • Alarm view                                                 | Yes      |
| • Trend view                                                 | Yes      |
| • User view                                                  | Yes      |
| • Status/control                                             | No       |
| • Sm@rtClient view                                           | No       |
| • Recipe view                                                | Yes      |
| • f(x) trend view                                            | No       |
| • System diagnostics view                                    | No       |
| • Media Player                                               | No       |
| • Bar graphs                                                 | Yes      |
| • Sliders                                                    | No       |
| • Pointer instruments                                        | No       |
| • Analog/digital clock                                       | No       |
| Lists                                                        |          |

|                                                        |                                                                                               |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| • Number of text lists per project                     | 150                                                                                           |
| • Number of entries per text list                      | 30                                                                                            |
| • Number of graphics lists per project                 | 100                                                                                           |
| • Number of entries per graphics list                  | 30                                                                                            |
| <b>Archiving</b>                                       |                                                                                               |
| • Number of archives per device                        | 0                                                                                             |
| <b>Security</b>                                        |                                                                                               |
| • Number of user groups                                | 50                                                                                            |
| • Number of user rights                                | 32                                                                                            |
| • Number of users                                      | 50                                                                                            |
| • Password export/import                               | No                                                                                            |
| • SIMATIC Logon                                        | No                                                                                            |
| <b>Character sets</b>                                  |                                                                                               |
| • Keyboard fonts                                       |                                                                                               |
| — US English                                           | Yes                                                                                           |
| <b>Transfer (upload/download)</b>                      |                                                                                               |
| • MPI/PROFIBUS DP                                      | Yes                                                                                           |
| • USB                                                  | No                                                                                            |
| • Ethernet                                             | No                                                                                            |
| • using external storage medium                        | No                                                                                            |
| <b>Process coupling</b>                                |                                                                                               |
| • S7-1200                                              | Yes                                                                                           |
| • S7-1500                                              | Yes                                                                                           |
| • S7-200                                               | Yes                                                                                           |
| • S7-300/400                                           | Yes                                                                                           |
| • LOGO!                                                | Yes                                                                                           |
| • WinAC                                                | Yes                                                                                           |
| • SINUMERIK                                            | No                                                                                            |
| • SIMOTION                                             | No                                                                                            |
| • Allen Bradley (EtherNet/IP)                          | No                                                                                            |
| • Allen Bradley (DF1)                                  | Yes                                                                                           |
| • Mitsubishi (MC TCP/IP)                               | No                                                                                            |
| • Mitsubishi (FX)                                      | Yes                                                                                           |
| • OMRON (FINS TCP)                                     | No                                                                                            |
| • OMRON (LINK/Multilink)                               | Yes                                                                                           |
| • Modicon (Modbus TCP/IP)                              | No                                                                                            |
| • Modicon (Modbus)                                     | Yes                                                                                           |
| <b>Service tools/configuration aids</b>                |                                                                                               |
| • Backup/Restore manually                              | Yes                                                                                           |
| • Backup/Restore automatically                         | No                                                                                            |
| • Simulation                                           | Yes                                                                                           |
| • Device switchover                                    | Yes                                                                                           |
| <b>Peripherals/Options</b>                             |                                                                                               |
| Printer                                                | No                                                                                            |
| SIMATIC HMI MM memory card: Multi Media Card           | No                                                                                            |
| SIMATIC HMI SD memory card: Secure Digital memory card | No                                                                                            |
| USB memory                                             | No                                                                                            |
| <b>Mechanics/material</b>                              |                                                                                               |
| Enclosure material (front)                             |                                                                                               |
| • Plastic                                              | Yes                                                                                           |
| • Aluminum                                             | No                                                                                            |
| • Stainless steel                                      | No                                                                                            |
| <b>Dimensions</b>                                      |                                                                                               |
| Width of the housing front                             | 335 mm                                                                                        |
| Height of housing front                                | 275 mm                                                                                        |
| Mounting cutout, width                                 | 310 mm                                                                                        |
| Mounting cutout, height                                | 248 mm                                                                                        |
| Overall depth                                          | 60 mm                                                                                         |
| <b>Weights</b>                                         |                                                                                               |
| Weight (without packaging)                             | 2.65 kg                                                                                       |
| Weight (with packaging)                                | 3.52 kg                                                                                       |
| <b>last modified:</b>                                  | 10/8/2021  |

