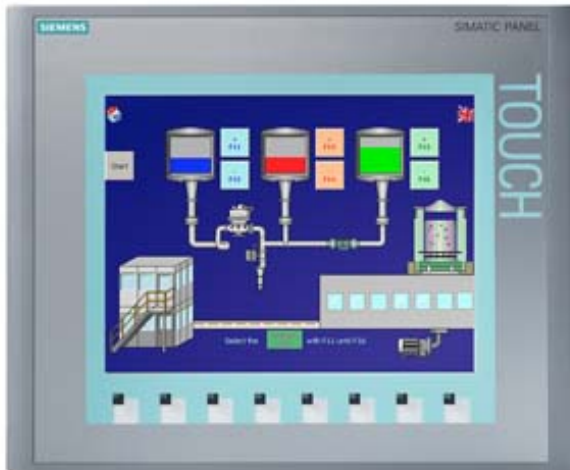


SIMATIC HMI KTP1000 Basic Color PN, Basic Panel, Key/touch operation, 10" TFT display, 256 colors, PROFINET interface, configurable as of WinCC flexible 2008 SP2 Compact/ WinCC Basic V10.5/ STEP 7 Basic V10.5, contains open-source software, which is provided free of charge see enclosed CD



| General information | |
|--------------------------------|------------------------|
| Product type designation | KTP1000 Basic color PN |
| 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 |

| | |
|--------------------------|------------------------|
| • Keys with LED | No |
| • System keys | No |
| • Numeric keyboard | Yes; Onscreen keyboard |
| • alphanumeric keyboard | Yes; Onscreen keyboard |
| Touch operation | |
| • Design as touch screen | Yes |

| | |
|---|----------|
| Installation type/mounting | |
| Mounting position | vertical |
| 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 ² t | 0.2 A ² ·s |

| | |
|--------------------------|------|
| Power | |
| Active power input, typ. | 15 W |

| | |
|------------------|-------------|
| Processor | |
| Processor type | RISC 32 bit |

| | |
|--------------------------------|---------|
| Memory | |
| Flash | Yes |
| RAM | Yes |
| Memory available for user data | 2 Mbyte |

| | |
|-----------------------|-----|
| Type of output | |
| Acoustics | |
| • Buzzer | Yes |
| • Speaker | No |

| | |
|------------------------------|-----|
| Time of day | |
| Clock | |
| • Hardware clock (real-time) | No |
| • Software clock | Yes |
| • retentive | No |
| • synchronizable | Yes |

Interfaces

| | |
|--|----|
| Number of industrial Ethernet interfaces | 1 |
| Number of RS 485 interfaces | 0 |
| Number of RS 422 interfaces | 0 |
| 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 | 2 |

Protocols

| | |
|-----------------------------------|-----|
| PROFINET | Yes |
| Supports protocol for PROFINET IO | No |
| IRT | No |
| PROFIBUS | No |
| MPI | No |

Protocols (Ethernet)

| | |
|----------|-----|
| • TCP/IP | Yes |
| • DHCP | Yes |
| • SNMP | Yes |
| • DCP | Yes |
| • LLDP | Yes |

WEB characteristics

| | |
|--------|----|
| • HTTP | No |
| • HTML | No |

Further protocols

| | |
|---------------|------------------------------|
| • CAN | No |
| • EtherNet/IP | Yes |
| • MODBUS | Yes; Modicon (MODBUS TCP/IP) |

Interrupts/diagnostics/status information

Diagnostic messages

| | |
|-----------------------------------|----|
| • Diagnostic information readable | 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 |
|---------|-----|

| | |
|--|-----------------------|
| cULus | Yes |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| Use in hazardous areas | |
| • 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 |
| Marine approval | |
| • 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 |
| Ambient conditions | |
| 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, min. | 40 °C |
| Ambient temperature during storage/transportation | |
| • min. | -20 °C |
| • max. | 60 °C |
| Relative humidity | |
| • Operation, max. | 90 %; no condensation |
| Operating systems | |
| proprietary | Yes |
| pre-installed operating system | |
| • Windows CE | No |
| Configuration | |
| 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 |

Languages

Online languages

| | |
|--------------------------------------|---|
| • Number of online/runtime languages | 5 |
|--------------------------------------|---|

Project languages

| | |
|-------------------------|----|
| • Languages per project | 32 |
|-------------------------|----|

Functionality under WinCC (TIA Portal)

| | |
|-----------|-----|
| Libraries | Yes |
|-----------|-----|

Task planner

| | |
|-------------------|-----|
| • time-controlled | No |
| • task-controlled | Yes |

Message system

| | |
|--|-----|
| • Number of alarm classes | 32 |
| • Bit messages | |
| — Number of bit messages | 200 |
| • Analog messages | |
| — Number of analog messages | 15 |
| • System messages HMI | Yes |
| • 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 |
| Archiving | |
| • Number of archives per device | 0 |
| Security | |
| • Number of user groups | 50 |
| • Number of user rights | 32 |
| • Number of users | 50 |
| • Password export/import | No |
| • SIMATIC Logon | No |
| Character sets | |
| • Keyboard fonts | |
| — US English | Yes |
| Transfer (upload/download) | |
| • MPI/PROFIBUS DP | No |
| • USB | No |
| • 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 | No |
| • SIMOTION | No |
| • Allen Bradley (EtherNet/IP) | Yes |
| • Allen Bradley (DF1) | No |
| • Mitsubishi (MC TCP/IP) | Yes |
| • Mitsubishi (FX) | No |
| • OMRON (FINS TCP) | No |
| • OMRON (LINK/Multilink) | No |
| • Modicon (Modbus TCP/IP) | Yes |
| • Modicon (Modbus) | Yes |
| Service tools/configuration aids | |
| • Backup/Restore manually | Yes |
| • Backup/Restore automatically | No |
| • Simulation | Yes |
| • Device switchover | Yes |

Peripherals/Options

Peripherals

- | | |
|--|----|
| • Printer | No |
| • SIMATIC HMI MM memory card: Multi Media Card | No |
| • SIMATIC HMI SD memory card: Secure Digital memory card | No |
| • USB memory | No |

Mechanics/material

Enclosure material (front)

- | | |
|-------------------|-----|
| • Plastic | Yes |
| • Aluminum | No |
| • Stainless steel | No |

Dimensions

| | |
|----------------------------|--------|
| 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 |

Weights

| | |
|--------------------------|---------|
| Weight without packaging | 2.65 kg |
| Weight incl. packaging | 3.38 kg |

last modified: 01/17/2019