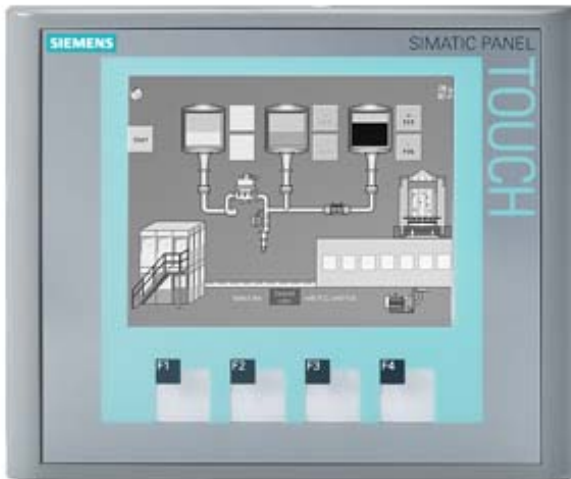


SIMATIC HMI KTP400 Basic mono PN, Basic Panel, Key/touch operation, 4" STN display, 4 gray levels, PROFINET interface, configurable as of WinCC flexible 2008 SP2 Compact/ WinCC Basic V10.5/ STEP 7 Basic V10.5, contains open-source software, which is provided free of charge see enclosed CD



| General information | |
|--------------------------------|----------------------|
| Product type designation | KTP400 Basic mono PN |
| Display | |
| Design of display | STN |
| Screen diagonal | 3.8 in |
| Display width | 76.8 mm |
| Display height | 57.6 mm |
| Number of colors | 4; Grayscales |
| Resolution (pixels) | |
| • Horizontal image resolution | 320 Pixel |
| • Vertical image resolution | 240 Pixel |
| Backlighting | |
| • MTBF backlighting (at 25 °C) | 30 000 h |
| • Backlight dimmable | No |
| Control elements | |
| Keyboard fonts | |
| • Function keys | |
| — Number of function keys | 4 |

| | |
|---|------------------------|
| — 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 |
| Installation type/mounting | |
| Mounting position | vertical |
| Rack mounting | No |
| Wall mounting/direct mounting | No |
| Mounting in portrait format possible | Yes |
| 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) | 0.1 A |
| Starting current inrush I ² t | 0.5 A ² ·s |
| Power | |
| Active power input, typ. | 3 W |
| Processor | |
| Processor type | RISC 32 bit |
| Memory | |
| Flash | Yes |
| RAM | Yes |
| Memory available for user data | 1 Mbyte |
| Type of output | |
| Acoustics | |
| • Buzzer | Yes |
| • Speaker | No |
| Time of day | |
| Clock | |
| • Hardware clock (real-time) | No |
| • Software clock | Yes |

- retentive
- synchronizable

No

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
- DHCP
- SNMP
- DCP
- LLDP

Yes

Yes

Yes

Yes

Yes

WEB characteristics

- HTTP
- HTML

No

No

Further protocols

- CAN
- EtherNet/IP
- MODBUS

No

Yes

Yes; Modicon (MODBUS TCP/IP)

Interrupts/diagnostics/status information

Diagnoses

- Diagnostic information readable

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

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) Yes

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
- Operation (vertical installation, portrait format)
 - For vertical installation, min. 0 °C
 - For vertical installation, max. 50 °C
- Operation (max. tilt angle, portrait format)
 - 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 |
| Applications/options | none |
| • Web browser | No |
| • SIMATIC WinCC Sm@rtServer | No |
| Task planner | |
| • time-controlled | No |
| • task-controlled | Yes |
| Help system | |
| • Number of characters per info text | 320 |
| 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 messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) | 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 | 250 |
| • 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) | No |
| Service tools/configuration aids | |
| • Backup/Restore manually | Yes |
| • Backup/Restore automatically | No |
| • Simulation | Yes |
| • Device switchover | Yes |
| Peripherals/Options | |
| 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 | 140 mm |
| Height of housing front | 116 mm |
| Mounting cutout, width | 123 mm |
| Mounting cutout, height | 99 mm |
| Overall depth | 40 mm |
| Weights | |
| Weight without packaging | 0.32 kg |
| Weight incl. packaging | 0.53 kg |
| last modified: | 10/09/2020 |