



\*\*\* spare part \*\*\* SIMATIC HMI KTP600 Basic mono PN, Basic Panel, key/touch operation, 6" 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                                              | KTP600 Basic mono PN   |
| Display                                                               |                        |
| Design of display                                                     | STN                    |
| Screen diagonal                                                       | 5.7 in                 |
| Display width                                                         | 115.2 mm               |
| Display height                                                        | 86.4 mm                |
| Number of colors                                                      | 4; Grayscales          |
| Resolution (pixels)                                                   |                        |
| • Horizontal image resolution                                         | 320 pixel              |
| • Vertical image resolution                                           | 240 pixel              |
| Backlighting                                                          |                        |
| • MTBF backlighting (at 25 °C)                                        | 50 000 h               |
| • Backlight dimmable                                                  | No                     |
| Control elements                                                      |                        |
| Keyboard fonts                                                        |                        |
| • Function keys                                                       |                        |
| — Number of function keys                                             | 6                      |
| — 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                                  | 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)                | 0.24 A                       |
| Starting current inrush I <sub>st</sub>          | 0.5 A <sup>2</sup> ·s        |
| <b>Power</b>                                     |                              |
| Active power input, typ.                         | 6 W                          |
| <b>Processor</b>                                 |                              |
| Processor type                                   | RISC 32 bit                  |
| <b>Memory</b>                                    |                              |
| Flash                                            | Yes                          |
| RAM                                              | Yes                          |
| Memory available for user data                   | 1 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         | 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                           |
| <b>Industrial Ethernet</b>                       |                              |
| • Industrial Ethernet status LED                 | 2                            |
| <b>Protocols</b>                                 |                              |
| PROFINET                                         | Yes                          |
| Supports protocol for PROFINET IO                | No                           |
| IRT                                              | No                           |
| PROFIBUS                                         | No                           |
| EtherNet/IP                                      | Yes                          |
| MPI                                              | No                           |
| <b>Protocols (Ethernet)</b>                      |                              |
| • TCP/IP                                         | Yes                          |
| • DHCP                                           | Yes                          |
| • SNMP                                           | Yes                          |
| • DCP                                            | Yes                          |
| • LLDP                                           | Yes                          |
| <b>WEB characteristics</b>                       |                              |
| • HTTP                                           | No                           |
| • HTML                                           | No                           |
| <b>Further protocols</b>                         |                              |
| • CAN                                            | No                           |
| • MODBUS                                         | Yes; Modicon (MODBUS TCP/IP) |
| <b>Interrupts/diagnostics/status information</b> |                              |
| <b>Diagnoses</b>                                 |                              |
| • 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; valid only when stated on the device nameplate!  |
| • ATEX Zone 22                                           | No; valid only when stated on the device nameplate!  |
| • IECEx Zone 2                                           | No; valid only when stated on the device nameplate!  |
| • IECEx Zone 22                                          | No; valid only when stated on the device nameplate!  |
| • cULus Class I Zone 1                                   | No; valid only when stated on the device nameplate!  |
| • cULus Class I Zone 2, Division 2                       | No; valid only when stated on the device nameplate!  |
| • cULus Class II Division 2                              | No; valid only when stated on the device nameplate!  |
| • FM Class I Division 2                                  | No; valid only when stated on the device nameplate!  |
| • FM Class II Division 2                                 | No; valid only when stated on the device nameplate!  |
| <b>Marine approval</b>                                   |                                                      |
| • Germanischer Lloyd (GL)                                | Yes; valid only when stated on the device nameplate! |
| • American Bureau of Shipping (ABS)                      | Yes                                                  |
| • Bureau Veritas (BV)                                    | Yes                                                  |
| • Det Norske Veritas (DNV)                               | Yes                                                  |
| • Korean Register of Shipping (KRS)                      | No                                                   |
| • Lloyds Register of Shipping (LRS)                      | Yes                                                  |
| • Nippon Kaiji Kyokai (Class NK)                         | Yes                                                  |
| • Polski Rejestr Statkow (PRS)                           | Yes                                                  |
| • Chinese Classification Society (CCS)                   | No                                                   |
| <b>Ambient conditions</b>                                |                                                      |
| Suited for indoor use                                    | Yes                                                  |
| Suited for outdoor use                                   | No                                                   |
| <b>Ambient temperature during operation</b>              |                                                      |
| 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                                                |
| 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, max.                            | 40 °C                                                |
| <b>Ambient temperature during storage/transportation</b> |                                                      |
| • min.                                                   | -20 °C                                               |
| • max.                                                   | 60 °C                                                |
| <b>Relative humidity</b>                                 |                                                      |
| • Operation, max.                                        | 90 %; no condensation                                |
| <b>Operating systems</b>                                 |                                                      |
| proprietary                                              | Yes                                                  |
| <b>pre-installed operating system</b>                    |                                                      |
| • 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                                                  |
| <b>Configuration software</b>                            |                                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• STEP 7 Basic (TIA Portal)</li> <li>• STEP 7 Professional (TIA Portal)</li> <li>• WinCC flexible Compact</li> <li>• WinCC flexible Standard</li> <li>• WinCC flexible Advanced</li> <li>• WinCC Basic (TIA Portal)</li> <li>• WinCC Comfort (TIA Portal)</li> <li>• WinCC Advanced (TIA Portal)</li> <li>• WinCC Professional (TIA Portal)</li> </ul>                                                                                                                                                                                                                                                                                                                                                     | Yes; via integrated WinCC Basic (TIA Portal)<br>Yes; via integrated WinCC Basic (TIA Portal)<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes<br>Yes |
| <b>Languages</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |
| <b>Online languages</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• Number of online/runtime languages</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                                                                                                             |
| <b>Project languages</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• Languages per project</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 32                                                                                                                                            |
| <b>Functionality under WinCC (TIA Portal)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |
| Libraries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                                                                                                                                           |
| Applications/options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | none                                                                                                                                          |
| <ul style="list-style-type: none"> <li>• Web browser</li> <li>• SIMATIC WinCC Sm@rtServer</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No<br>No                                                                                                                                      |
| Task planner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• time-controlled</li> <li>• task-controlled</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No<br>Yes                                                                                                                                     |
| Help system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• Number of characters per info text</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 320                                                                                                                                           |
| <b>Message system</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• Number of alarm classes</li> <li>• Bit messages               <ul style="list-style-type: none"> <li>— Number of bit messages</li> </ul> </li> <li>• Analog messages               <ul style="list-style-type: none"> <li>— Number of analog messages</li> </ul> </li> <li>• System messages HMI</li> <li>• System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ... )</li> <li>• Number of characters per message</li> <li>• Number of process values per message</li> <li>• Message indicator</li> <li>• Message buffer               <ul style="list-style-type: none"> <li>— Number of entries</li> <li>— Circulating buffer</li> <li>— retentive</li> <li>— maintenance-free</li> </ul> </li> </ul> | 32<br>Yes<br>200<br>Yes<br>15<br>Yes<br>No<br>80<br>8<br>Yes<br>Yes<br>256<br>Yes<br>Yes<br>Yes                                               |
| <b>Recipe management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• Number of recipes</li> <li>• Data records per recipe</li> <li>• Entries per data record</li> <li>• Size of internal recipe memory</li> <li>• Recipe memory expandable</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5<br>20<br>20<br>40 kbyte<br>No                                                                                                               |
| <b>Variables</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• Number of variables per device</li> <li>• Number of variables per screen</li> <li>• Limit values</li> <li>• Multiplexing</li> <li>• Structures</li> <li>• Arrays</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 500<br>30<br>Yes<br>Yes<br>No<br>Yes                                                                                                          |
| <b>Images</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• Number of configurable images</li> <li>• Permanent window/default</li> <li>• Global image</li> <li>• Image selection by PLC</li> <li>• Image number in the PLC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50<br>Yes<br>Yes<br>Yes<br>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<br>— 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      |
| <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                             | 214 mm  |
| Height of housing front                                | 158 mm  |
| Mounting cutout, width                                 | 197 mm  |
| Mounting cutout, height                                | 141 mm  |
| Overall depth                                          | 44 mm   |
| <b>Weights</b>                                         |         |
| Weight (without packaging)                             | 1.07 kg |
| Weight (with packaging)                                | 1.3 kg  |

**last modified:**

3/18/2022 