

SIPLUS HMI KTP600 BASIC COLOR P -25 ... +60 DEGREES C  
WITH CONFORMAL COATING BASED ON 6AV6647-0AD11-3AX0 .  
5,7" TFT DISPLAY , 256 COLORS ETHERNET INTERFACE



| General information            |                                   |
|--------------------------------|-----------------------------------|
| Product type designation       | SIMATIC HMI KTP600 Basic color PN |
| Display                        |                                   |
| Design of display              | TFT                               |
| Screen diagonal                | 5.7 in                            |
| Display width                  | 115.2 mm                          |
| Display height                 | 86.4 mm                           |
| Number of colors               | 256                               |
| 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                                 |

|                                                                       |                        |
|-----------------------------------------------------------------------|------------------------|
| • 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                                  | 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)                                     | 0.35 A                 |
| Starting current inrush I <sup>2</sup> t                              | 0.5 A <sup>2</sup> ·s  |
| Power                                                                 |                        |
| Active power input, typ.                                              | 9 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                                                           | 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                           |
| <b>Industrial Ethernet</b>                       |                              |
| • Industrial Ethernet status LED                 | 2                            |
| <b>Protocols</b>                                 |                              |
| PROFINET                                         | Yes                          |
| Supports protocol for PROFINET IO                | No                           |
| IRT                                              | No                           |
| PROFIBUS                                         | No                           |
| 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                           |
| • EtherNet/IP                                    | Yes                          |
| • MODBUS                                         | Yes; Modicon (MODBUS TCP/IP) |
| <b>Interrupts/diagnostics/status information</b> |                              |
| <b>Diagnostic messages</b>                       |                              |
| • Diagnostic information readable                | No                           |
| <b>Degree and class of protection</b>            |                              |
| IP (at the front)                                | IP65                         |
| Enclosure Type 4 at the front                    | Yes                          |
| Enclosure Type 4x at the front                   | Yes                          |
| IP (rear)                                        | IP20                         |
| <b>Standards, approvals, certificates</b>        |                              |
| CE mark                                          | Yes                          |

|                                                                     |                                                                                     |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| cULus                                                               | Yes                                                                                 |
| RCM (formerly C-TICK)                                               | Yes                                                                                 |
| KC approval                                                         | Yes                                                                                 |
| <b>Marine approval</b>                                              |                                                                                     |
| • Germanischer Lloyd (GL)                                           | No                                                                                  |
| • American Bureau of Shipping (ABS)                                 | No                                                                                  |
| • Bureau Veritas (BV)                                               | No                                                                                  |
| • Det Norske Veritas (DNV)                                          | No                                                                                  |
| • Lloyds Register of Shipping (LRS)                                 | No                                                                                  |
| • Nippon Kaiji Kyokai (Class NK)                                    | No                                                                                  |
| • Polski Rejestr Statkow (PRS)                                      | No                                                                                  |
| <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>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.                                   | -25 °C                                                                              |
| — For vertical installation, max.                                   | 60 °C                                                                               |
| • Operation (max. tilt angle)                                       |                                                                                     |
| — At maximum tilt angle, min.                                       | -25 °C                                                                              |
| — At maximum tilt angle, min.                                       | 40 °C                                                                               |
| <b>Ambient temperature during storage/transportation</b>            |                                                                                     |
| • min.                                                              | -30 °C                                                                              |
| • max.                                                              | 60 °C                                                                               |
| <b>Relative humidity</b>                                            |                                                                                     |
| • With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation/frost (no commissioning under condensation conditions) |
| <b>Operating systems</b>                                            |                                                                                     |
| proprietary                                                         | Yes                                                                                 |
| <b>pre-installed operating system</b>                               |                                                                                     |
| • Windows CE                                                        | No                                                                                  |
| <b>Configuration</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>                 |                                              |
| • 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>                              |                                              |
| <b>Online languages</b>                       |                                              |
| • Number of online/runtime languages          | 5                                            |
| <b>Project languages</b>                      |                                              |
| • Languages per project                       | 32                                           |
| <b>Functionality under WinCC (TIA Portal)</b> |                                              |
| Libraries                                     | Yes                                          |
| <b>Task planner</b>                           |                                              |
| • time-controlled                             | No                                           |
| • task-controlled                             | Yes                                          |
| <b>Help system</b>                            |                                              |
| • Number of characters per info text          | 320                                          |
| <b>Message system</b>                         |                                              |
| • 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                                          |
| <b>Recipe management</b>                      |                                              |
| • 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       |
| <b>Variables</b>                       |          |
| • Number of variables per device       | 500      |
| • Number of variables per screen       | 30       |
| • Limit values                         | Yes      |
| • Multiplexing                         | Yes      |
| • Structures                           | No       |
| • Arrays                               | Yes      |
| <b>Images</b>                          |          |
| • Number of configurable images        | 50       |
| • Permanent window/default             | Yes      |
| • Global image                         | Yes      |
| • Image selection by PLC               | Yes      |
| • Image number in the PLC              | Yes      |
| <b>Image objects</b>                   |          |
| • 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      |
| <b>Complex image objects</b>           |          |
| • 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                                                                                                                                                                                                     |
| <b>Lists</b>                           |                                                                                                                                                                                                        |
| • 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                      | No                                                                                                                                                                                                     |
| • USB                                  | No                                                                                                                                                                                                     |
| • Ethernet                             | Yes                                                                                                                                                                                                    |
| • using external storage medium        | No                                                                                                                                                                                                     |
| <b>Process coupling</b>                |                                                                                                                                                                                                        |
| • S7-1200                              | Yes                                                                                                                                                                                                    |
| • S7-1500                              | Yes                                                                                                                                                                                                    |
| • S7-200                               | Yes                                                                                                                                                                                                    |
| • S7-300/400                           | Yes                                                                                                                                                                                                    |
| • LOGO!                                | Yes; With restrictions with regard to address area and data types<br><a href="http://support.automation.siemens.com/WW/view/en/56348902">http://support.automation.siemens.com/WW/view/en/56348902</a> |
| • 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                                      |    |
|----------------------------------------------------------|----|
| 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 | 214 mm |
| Height of housing front    | 158 mm |
| Mounting cutout, width     | 197 mm |
| Mounting cutout, height    | 141 mm |
| Overall depth              | 44 mm  |

| Weights                  |            |
|--------------------------|------------|
| Weight without packaging | 1.07 kg    |
| Weight incl. packaging   | 1.32 kg    |
| <b>last modified:</b>    | 08/26/2017 |