



SIMATIC HMI KTP400 BASIC COLOR PN,  
 BASIC PANEL, KEY AND TOUCH OPERATION,  
 4" WIDESCREEN-TFT-DISPLAY, 256 COLORS,  
 PROFINET INTERFACE,  
 CONFIGURATION FROM WINCC BASIC V11 SP2/ STEP 7  
 BASIC V11 SP2,  
 CONTAINS OPEN SOURCE SW WHICH IS PROVIDED  
 FREE OF CHARGE FOR DETAILS SEE CD

Display	
Design of display	TFT
Screen diagonal	4.3 in
Display width	95 mm
Display height	53.8 mm
Number of colors	256
Resolution (pixels)	
Horizontal image resolution	480
Vertical image resolution	272
Backlighting	
MTBF backlighting (at 25 °C)	50000 h
Dimmable backlight	No
Control elements	
Keyboard fonts	
Number of function keys	4
Keys with LED	No
System keys	No
Numeric/alphabetical input	
Numeric keyboard	Yes ; Onscreen keyboard

<b>Alphanumeric keyboard</b>	Yes ; Onscreen keyboard
<b>Touch operation</b>	
<b>Design as touch screen</b>	Yes
<b>Installation type/mounting</b>	
<b>Mounting in portrait format possible</b>	Yes
<b>Mounting in landscape format possible</b>	Yes
<b>Supply voltage</b>	
<b>Type of supply voltage</b>	DC
<b>Rated value (DC)</b>	24 V
<b>permissible range, lower limit (DC)</b>	19.2 V
<b>permissible range, upper limit (DC)</b>	28.8 V
<b>Input current</b>	
<b>Current consumption (rated value)</b>	0.1 A
<b>Inrush current A<sup>2</sup>s</b>	0.5 A <sup>2</sup> s
<b>Power</b>	
<b>Power consumption, typ.</b>	2 W
<b>Processor</b>	
<b>Processor type</b>	
<b>X86</b>	No
<b>ARM</b>	Yes ; RISC 32-bit
<b>Memory</b>	
<b>Flash</b>	Yes
<b>RAM</b>	Yes
<b>Usable memory for user data</b>	1 Mbyte
<b>Type of output</b>	
<b>Acoustics</b>	
<b>Buzzer</b>	Yes
<b>Speaker</b>	No
<b>Time of day</b>	
<b>Clock</b>	
<b>Hardware clock (real-time clock)</b>	No
<b>Software clock</b>	Yes
<b>Battery-backed</b>	No
<b>Synchronizable</b>	Yes
<b>Interfaces</b>	
<b>Number of RS 485 interfaces</b>	0
<b>Number of USB interfaces</b>	0
<b>Number of SD card slots</b>	0

<b>Number of parallel interfaces</b>	0
<b>Number of 20 mA interfaces (TTY)</b>	0
<b>Number of RS 232 interfaces</b>	0
<b>Number of RS 422 interfaces</b>	0
<b>Number of other interfaces</b>	0
<b>With software interfaces</b>	No
<b>Industrial Ethernet</b>	
<b>Number of industrial Ethernet interfaces</b>	1
<b>Industrial Ethernet status LED</b>	2
<b>Protocols</b>	
<b>PROFINET</b>	Yes
<b>Supports protocol for PROFINET IO</b>	No
<b>IRT supported</b>	No
<b>PROFIBUS</b>	No
<b>MPI</b>	No
<b>Protocols (Ethernet)</b>	
<b>TCP/IP</b>	Yes
<b>DHCP</b>	Yes
<b>SNMP</b>	Yes
<b>DCP</b>	Yes
<b>LLDP</b>	Yes
<b>WEB characteristics</b>	
<b>HTTP</b>	No
<b>HTML</b>	No
<b>Further protocols</b>	
<b>CAN</b>	No
<b>MODBUS</b>	Yes ; Modicon (MODBUS TCP/IP)
<b>Supports protocol for EtherNet/IP</b>	Yes
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostic messages</b>	
<b>Diagnostic information readable</b>	No
<b>EMC</b>	
<b>Emission of radio interference acc. to EN 55 011</b>	
<b>Emission of radio interferences acc. to EN 55 011 (limit class A)</b>	Yes
<b>Emission of radio interference acc. to EN 55 011 (limit class B)</b>	No
<b>Degree and class of protection</b>	
<b>IP (at the front)</b>	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
KC approval	Yes
cULus	Yes
RCM (former C-TICK)	Yes
<b>Marine approval</b>	
GL	Yes
ABS	Yes
BV	Yes
DNV	Yes
LRS	Yes
Class NK	Yes
PRS	Yes
<b>Use in hazardous areas</b>	
ATEX Zone 2	No
ATEX Zone 22	No
cULus Class I Zone 1	No
cULus Class I Zone 2, Division 2	No
FM Class I Division 2	No
<b>Ambient conditions</b>	
Mounting position	vertical
maximum permissible angle of inclination without external ventilation	35 °
<b>Operating temperature</b>	
<b>Operation (vertical installation)</b>	
in vertical mounting position, minimum	0 °C
in vertical mounting position, maximum	50 °C
<b>Operation (max. tilt angle)</b>	
at maximum tilt angle, minimum	0 °C
at maximum tilt angle, maximum	40 °C
<b>Operation (vertical installation, portrait format)</b>	
in vertical mounting position, minimum	0 °C
in vertical mounting position, maximum	40 °C
<b>Operation (max. tilt angle, portrait format)</b>	
at maximum tilt angle, minimum	0 °C
at maximum tilt angle, maximum	35 °C

Storage/transport temperature	
Min.	-20 °C
max.	60 °C
Relative humidity	
max. relative humidity	90 %
Operating systems	
Windows CE	No
proprietary	Yes
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other	No
Configuration	
Message indicator	Yes
With alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	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	No
WinCC flexible Standard	No
WinCC flexible Advanced	No
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
Languages	
Languages per project	32
Languages	
D	Yes
GB	Yes
F	Yes
I	Yes
E	Yes
Chinese traditional	Yes

<b>Chinese simplified</b>	Yes
<b>DK</b>	Yes
<b>FIN</b>	Yes
<b>GR</b>	Yes
<b>J</b>	Yes
<b>KP/ROK</b>	Yes
<b>NL</b>	Yes
<b>N</b>	Yes
<b>PL</b>	Yes
<b>P</b>	Yes
<b>RUS</b>	Yes
<b>S</b>	Yes
<b>CZ</b>	Yes
<b>SK</b>	Yes
<b>TR</b>	Yes
<b>H</b>	Yes
<b>Functionality under WinCC (TIA Portal)</b>	
<b>Libraries</b>	Yes
<b>Task planner</b>	
<b>time-controlled</b>	No
<b>task-controlled</b>	Yes
<b>Help system</b>	Yes
<b>Number of characters per info text</b>	320
<b>Message system</b>	
<b>Number of alarm classes</b>	32
<b>Number of bit messages</b>	200
<b>Number of analog messages</b>	15
<b>System messages HMI</b>	Yes
<b>Number of characters per message</b>	80
<b>Number of process values per message</b>	8
<b>Message indicator</b>	Yes
<b>Message buffer</b>	
<b>Number of entries</b>	256
<b>Circulating buffer</b>	Yes
<b>retentive</b>	Yes
<b>maintenance-free</b>	Yes
<b>Recipe administration</b>	
<b>Number of recipes</b>	5
<b>Data records per recipe</b>	20

<b>Entries per data record</b>	20
<b>Size of internal recipe memory</b>	40 kbyte
<b>Recipe memory expandable</b>	No
<b>Variables</b>	
<b>Number of variables per device</b>	500
<b>Number of variables per screen</b>	30
<b>Limit values</b>	Yes
<b>Multiplexing</b>	Yes
<b>Structs</b>	No
<b>Arrays</b>	Yes
<b>Images</b>	
<b>Number of configurable images</b>	50
<b>Number of configurable images</b>	50
<b>Permanent window/default</b>	Yes ; No permanent window can be configured
<b>Global image</b>	Yes
<b>Start screen configurable</b>	Yes
<b>Image selection by PLC</b>	Yes
<b>Image number in the PLC</b>	Yes
<b>Image objects</b>	
<b>Number of objects per image</b>	30
<b>Text fields</b>	Yes
<b>I/O fields</b>	Yes
<b>Graphic I/O fields (graphics list)</b>	Yes
<b>Symbolic I/O fields (text list)</b>	Yes
<b>Date/time fields</b>	Yes
<b>Switch</b>	Yes
<b>Buttons</b>	Yes
<b>Graphic view</b>	Yes
<b>Icons</b>	Yes ; Predefined screen objects
<b>Geometric objects</b>	Yes
<b>Complex image objects</b>	
<b>Number of complex objects per screen</b>	5
<b>Alarm view</b>	Yes
<b>Trend view</b>	Yes
<b>User view</b>	Yes
<b>Status/control</b>	No
<b>Sm@rtClient view</b>	No
<b>Recipe view</b>	Yes
<b>f(x) trend view</b>	No

<b>System diagnostics view</b>	No
<b>Media Player</b>	No
<b>Bar graphs</b>	Yes
<b>Sliders</b>	No
<b>Pointer instruments</b>	No
<b>Analog/digital clock</b>	No
<b>Lists</b>	
<b>Number of text lists per project</b>	150
<b>Number of entries per text list</b>	30
<b>Number of graphics lists per project</b>	100
<b>Number of entries per graphics list</b>	30
<b>Archiving</b>	
<b>Number of archives per device</b>	0
<b>Security</b>	
<b>Number of user groups</b>	50
<b>Number of user rights</b>	32
<b>Number of users</b>	50
<b>Password export/import</b>	No
<b>SIMATIC Logon</b>	No
<b>Character sets</b>	
<b>Keyboard fonts</b>	
<b>US English</b>	Yes
<b>Character sets</b>	
<b>Tahoma</b>	Yes
<b>Arial</b>	No
<b>Courier New</b>	No
<b>WinCC flexible Standard</b>	Yes
<b>Ideographic languages</b>	Yes
<b>Font size freely scalable</b>	No
<b>Additional character sets can be loaded</b>	No
<b>Transfer (upload/download)</b>	
<b>MPI/PROFIBUS DP</b>	No
<b>USB</b>	No
<b>Ethernet</b>	Yes
<b>using external storage medium</b>	No
<b>Process coupling</b>	
<b>S7-1200</b>	Yes
<b>S7-1500</b>	Yes
<b>S7-200</b>	Yes



<b>S7-300/400</b>	Yes
<b>LOGO!</b>	Yes
<b>Win AC</b>	No
<b>SINUMERIK</b>	No
<b>SIMOTION</b>	No
<b>Allen Bradley (EtherNet/IP)</b>	Yes
<b>Allen Bradley (DF1)</b>	No
<b>Mitsubishi (MC TCP/IP)</b>	Yes
<b>Mitsubishi (FX)</b>	No
<b>OMRON (FINS TCP)</b>	No
<b>OMRON (LINK/Multilink)</b>	No
<b>Modicon (Modbus TCP/IP)</b>	Yes
<b>Modicon (Modbus)</b>	No
<b>Service tools/configuration aids</b>	
<b>Clean screen</b>	Yes
<b>Touch calibration</b>	Yes
<b>Backup/restore</b>	Yes
<b>Backup/Restore automatically</b>	No
<b>Simulation</b>	Yes
<b>Device switchover</b>	Yes
<b>Delta transfer</b>	No
<b>I/O/Options</b>	
<b>I/O devices</b>	
<b>Printer</b>	No
<b>Multi Media Card</b>	No
<b>SD card</b>	No
<b>USB memory</b>	No
<b>Mechanics/material</b>	
<b>Type of housing (front)</b>	
<b>Plastic</b>	Yes
<b>Aluminum</b>	No
<b>Stainless steel</b>	No
<b>Dimensions</b>	
<b>Width of the housing front</b>	140 mm
<b>Height of housing front</b>	116 mm
<b>Mounting cutout (W x H x D)</b>	
<b>Mounting cutout, width</b>	123 mm
<b>Mounting cutout, height</b>	99 mm
<b>Device depth</b>	33 mm

## Weights

<b>Weight without packaging</b>	0.34 kg
<b>Weight incl. packaging</b>	0.45 kg
Status	Apr 14, 2014