



SIMATIC HMI KTP400 BASIC MONO PN,  
 BASIC PANEL, KEY AND TOUCH OPERATION,  
 4" STN DISPLAY, 4 GRAY SCALES,  
 PROFINET INTERFACE,  
 CONFIGURATION FROM WINCC FLEXIBLE 2008 SP2  
 COMPACT/ WINCC BASIC V10.5/ STEP7 BASIC V10.5,  
 CONTAINS OPEN SOURCE SW,  
 WHICH IS PROVIDED FREE OF CHARGE FOR DETAILS  
 SEE CD

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
vertical image resolution	240
Backlighting	
MTBF backlighting (at 25 °C)	30000 h
Backlight dimmable	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

alphanumeric keyboard	Yes ; Onscreen keyboard
<b>Touch operation</b>	
Design as touch screen	Yes
<b>Installation type/mounting</b>	
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
<b>Supply voltage</b>	
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
<b>Input current</b>	
Current consumption (rated value)	0.1 A
Inrush current A <sup>2</sup> s	0.5 A <sup>2</sup> s
<b>Power</b>	
Power consumption, typ.	3 W
<b>Processor</b>	
Processor type	
X86	No
ARM	Yes ; RISC 32-bit
<b>Memory</b>	
Flash	Yes
RAM	Yes
usable memory for user data	1 Mbyte
<b>Type of output</b>	
Acoustics	
Buzzer	Yes
Speaker	No
<b>Time of day</b>	
<b>Clock</b>	
Hardware clock (real-time clock)	No
Software clock	Yes
battery-backed	No
synchronizable	Yes
<b>Interfaces</b>	
Number of RS 485 interfaces	0
Number of USB interfaces	0
Number of SD card slots	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>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>EtherNet/IP</b>	Yes
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostic messages</b>	
<b>Diagnostic information readable</b>	No
<b>Degree and class of protection</b>	
<b>IP (at the front)</b>	IP65
<b>Enclosure Type 4 at the front</b>	Yes
<b>Enclosure Type 4x at the front</b>	Yes
<b>IP (rear)</b>	IP20
<b>Standards, approvals, certificates</b>	
<b>CE mark</b>	Yes

KC approval	Yes
cULus	Yes
RCM (former C-TICK)	Yes
<b>Marine approval</b>	
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
<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>	
Operation (vertical installation)	
in vertical mounting position, minimum	0 °C
in vertical mounting position, maximum	50 °C
Operation (max. tilt angle)	
at maximum tilt angle, minimum	0 °C
at maximum tilt angle, maximum	40 °C
Operation (vertical installation, portrait format)	
in vertical mounting position, minimum	0 °C
in vertical mounting position, maximum	50 °C
Operation (max. tilt angle, portrait format)	
at maximum tilt angle, minimum	0 °C
at maximum tilt angle, maximum	40 °C
<b>Storage/transport temperature</b>	
min.	-20 °C
max.	60 °C
<b>Relative humidity</b>	
Operation, max.	90 %

Operating systems	
Windows CE	No
proprietary	Yes
Executable with configuration operating system	
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	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
Project languages	
D	Yes
GB	Yes
F	Yes
I	Yes
E	Yes
Chinese traditional	Yes
Chinese simplified	Yes
DK	Yes
FIN	Yes
GR	Yes
J	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>	
<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>	250

<b>Number of variables per screen</b>	30
<b>Limit values</b>	Yes
<b>Multiplexing</b>	Yes
<b>Structures</b>	No
<b>Arrays</b>	Yes
<b>Images</b>	
<b>Number of configurable images</b>	50
<b>Permanent window/default</b>	Yes
<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 display</b>	Yes
<b>Icons</b>	Yes
<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

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
Fonts	
Tahoma	Yes
Arial	No
Courier New	No
WinCC Standard	Yes
Ideographic languages	Yes
Font size freely scalable	No
additional character sets loadable	No
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>	
Clean screen	Yes
Touch calibration	Yes
Backup/Restore manually	Yes
Backup/Restore automatically	No
Simulation	Yes
Device switchover	Yes
Delta transfer	No
<b>Peripherals/Options</b>	
<b>Peripherals</b>	
Printer	No
Multimedia Card	No
SD card	No
USB memory	No
<b>Mechanics/material</b>	
<b>Type of housing (front)</b>	
Plastic	Yes
Aluminum	No
Stainless steel	No
<b>Dimensions</b>	
Width of the housing front	140 mm
Height of housing front	116 mm
<b>Mounting cutout/device depth (W x H x D)</b>	
Mounting cutout, width	123 mm
Mounting cutout, height	99 mm
Overall depth	40 mm
<b>Weights</b>	
Weight without packaging	0.32 kg
Weight incl. packaging	0.53 kg
Status	Aug 12, 2014