

SIMATIC HMI KP300 BASIC MONO PN,  
 BASIC PANEL, KEY OPERATION,  
 3" FSTN LCD DISPLAY,  
 MONOCHROME BLACK/WHITE,  
 PROFINET INTERFACE,  
 CONFIGURATION FROM WINCC BASIC V11/ STEP7  
 BASIC V11,  
 CONTAINS OPEN SOURCE SW WHICH IS PROVIDED  
 FREE OF CHARGE FOR DETAILS SEE CD



Display	
Design of display	FSTN
Screen diagonal	3.6 in
Display width	87 mm
Display height	31 mm
Number of colors	4 ; Backlit display only (white, red, green, yellow)
Resolution (pixels)	
Horizontal image resolution	240
Vertical image resolution	80
Backlighting	
MTBF backlighting (at 25 °C)	50000 h
Dimmable backlight	No
Control elements	
Keyboard fonts	
Number of function keys	10
Keys with LED	No
System keys	Yes
Numeric/alphabetical input	
Numeric keyboard	Yes ; Keyboard fonts

<b>Alphanumeric keyboard</b>	Yes ; Keyboard fonts
<b>Touch operation</b>	
<b>Design as touch screen</b>	No
<b>Installation type/mounting</b>	
<b>Mounting in portrait format possible</b>	No
<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>	3 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>	No
<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

<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</b>	Yes
<b>KC approval</b>	Yes
<b>cULus</b>	Yes
<b>C-TICK</b>	Yes
<b>GL</b>	Yes
<b>ABS</b>	Yes
<b>BV</b>	Yes
<b>DNV</b>	Yes
<b>LRS</b>	Yes
<b>Class NK</b>	Yes
<b>PRS</b>	No
<b>Use in hazardous areas</b>	
<b>ATEX Zone 2</b>	No
<b>ATEX Zone 22</b>	No
<b>cULus Class I Zone 1</b>	No
<b>cULus Class I Zone 2, Division 2</b>	Yes
<b>FM Class I Division 2</b>	No
<b>Ambient conditions</b>	
<b>Mounting position</b>	vertical
<b>maximum permissible angle of inclination without external ventilation</b>	35 °
<b>Operating temperature</b>	
<b>Operation (vertical installation)</b>	
<b>in vertical mounting position/ minimum</b>	0 °C
<b>in vertical mounting position/ maximum</b>	50 °C
<b>Operation (max. tilt angle)</b>	
<b>at maximum tilt angle/minimum</b>	0 °C
<b>at maximum tilt angle/maximum</b>	40 °C
<b>Storage/transport temperature</b>	
<b>Min.</b>	-20 °C
<b>max.</b>	60 °C
<b>Relative humidity</b>	
<b>max. relative humidity</b>	90 %
<b>Operating systems</b>	
<b>Windows CE</b>	No

<b>proprietary</b>	Yes
<b>other</b>	No
<b>Configuration</b>	
<b>Message indicator</b>	Yes
<b>With alarm logging system (incl. buffer and acknowledgment)</b>	Yes
<b>Process value display (output)</b>	Yes
<b>Process value default (input) possible</b>	Yes
<b>Recipe administration</b>	Yes
<b>Configuration software</b>	
<b>STEP 7 Basic (TIA Portal)</b>	Yes ; via integrated WinCC Basic (TIA Portal)
<b>STEP 7 Professional (TIA Portal)</b>	Yes ; via integrated WinCC Basic (TIA Portal)
<b>WinCC flexible Compact</b>	No
<b>WinCC flexible Standard</b>	No
<b>WinCC flexible Advanced</b>	No
<b>WinCC Basic (TIA Portal)</b>	Yes
<b>WinCC Comfort (TIA Portal)</b>	Yes
<b>WinCC Advanced (TIA Portal)</b>	Yes
<b>WinCC Professional (TIA Portal)</b>	Yes
<b>Languages</b>	
<b>Online languages</b>	
<b>Number of online/runtime languages</b>	5
<b>Languages</b>	
<b>Languages per project</b>	32
<b>Languages</b>	
<b>D</b>	Yes
<b>GB</b>	Yes
<b>F</b>	Yes
<b>I</b>	Yes
<b>E</b>	Yes
<b>Chinese traditional</b>	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>	250
<b>Number of variables per screen</b>	30
<b>Limit values</b>	Yes
<b>Multiplexing</b>	Yes
<b>Structs</b>	No

Arrays	Yes
<b>Images</b>	
Number of configurable images	50
Permanent window/default	Yes
Global image	Yes
Start screen configurable	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 view	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
Character sets	
Tahoma	Yes
Arial	No
Courier New	No
WinCC flexible Standard	Yes
Ideographic languages	Yes
Font size freely scalable	No
Additional character sets can be loaded	No
<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
Win AC	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



<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>	No
<b>Touch calibration</b>	No
<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>MultiMediaCard</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>	165 mm
<b>Height of housing front</b>	97 mm
<b>Mounting cutout (W x H x D)</b>	
<b>Mounting cutout, width</b>	149 mm
<b>Mounting cutout, height</b>	82 mm
<b>Device depth</b>	30 mm
<b>Weights</b>	
<b>Weight without packaging</b>	0.25 kg
<b>Weight incl. packaging</b>	0.38 kg
Status	Oct 14, 2013