

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

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	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	Yes
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
<b>Storage/transport temperature</b>	
Min.	-20 °C
max.	60 °C
<b>Relative humidity</b>	
max. relative humidity	90 %
<b>Operating systems</b>	

<b>Windows CE</b>	No
<b>proprietary</b>	Yes
<b>[nicht versorgt: TAK_ACE281_001_000]</b>	
<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

N	Yes
PL	Yes
P	Yes
RUS	Yes
S	Yes
CZ	Yes
SK	Yes
TR	Yes
H	Yes
<b>Functionality under WinCC (TIA Portal)</b>	
Libraries	Yes
Task planner	
time-controlled	No
task-controlled	Yes
Help system	Yes
Number of characters per info text	320
<b>Message system</b>	
Number of alarm classes	32
Number of bit messages	200
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 administration</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	250
Number of variables per screen	30
Limit values	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
<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
<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>	

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
OMRON (LINK/Multilink)	No
Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	No
<b>Service tools/configuration aids</b>	
Clean screen	No
Touch calibration	No
Backup/restore	Yes
Backup/Restore automatically	No
Simulation	Yes
Device switchover	Yes
Delta transfer	No
<b>I/O/Options</b>	
I/O devices	
Printer	No
Multi Media Card	No
SD card	No
USB memory	No
<b>Mechanics/material</b>	
Type of housing (front)	
Plastic	Yes
Aluminum	No
Stainless steel	No
<b>Dimensions</b>	
Width of the housing front	165 mm
Height of housing front	97 mm
Mounting cutout (W x H x D)	
Mounting cutout, width	149 mm
Mounting cutout, height	82 mm
Device depth	30 mm
<b>Weights</b>	
Weight without packaging	0.25 kg
Weight incl. packaging	0.38 kg
Status	Apr 14, 2014