



SIMATIC HMI, KTP400 BASIC, BASIC PANEL,  
KEY AND TOUCH OPERATION,  
4" TFT DISPLAY, 65536 COLORS,  
PROFINET INTERFACE,  
CONFIGURATION FROM WINCC BASIC V13/ STEP7  
BASIC V13,  
CONTAINS OPEN SOURCE SW WHICH IS PROVIDED  
FREE OF CHARGE FOR DETAILS SEE CD

Display	
Screen diagonal	4.3 in
Display width	95 mm
Display height	53.9 mm
Number of colors	65536
Resolution (pixels)	
Horizontal image resolution	480
Vertical image resolution	272
Backlighting	
MTBF backlighting (at 25 °C)	20000 h
Dimmable backlight	Yes
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	24 V 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)	125 mA
Inrush current A <sup>2</sup> s	0.2 A <sup>2</sup> s
<b>Power</b>	
Power consumption, typ.	3 W
<b>Processor</b>	
Processor type	
X86	No
ARM	Yes
<b>Memory</b>	
Flash	Yes
RAM	Yes
Usable memory for user data	10 Mbyte
<b>Type of output</b>	
Acoustics	
Buzzer	Yes
Speaker	No
<b>Time of day</b>	
<b>Clock</b>	
Hardware clock (real-time clock)	Yes
Software clock	Yes
Battery-backed	Yes
Synchronizable	Yes
<b>Interfaces</b>	
Number of RS 485 interfaces	0
Number of USB interfaces	1
Number of SD card slots	0
Number of parallel interfaces	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>Enclosure Type 4 at the front</b>	Yes
<b>Enclosure type 4x at the front</b>	Yes

Standards, approvals, certificates	
CE mark	Yes
KC approval	Yes
cULus	Yes
RCM (former C-TICK)	Yes
Use in hazardous areas	
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
Ambient conditions	
maximum permissible angle of inclination without external ventilation	35 °
Operating temperature	
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	40 °C
Operation (max. tilt angle, portrait format)	
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

<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>	10
<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>TR</b>	Yes
<b>H</b>	Yes
<b>Functionality under WinCC (TIA Portal)</b>	
<b>Libraries</b>	Yes
<b>Number of Visual Basic Scripts</b>	No
<b>Task planner</b>	Yes
<b>time-controlled</b>	No
<b>task-controlled</b>	Yes
<b>Help system</b>	Yes
<b>Number of characters per info text</b>	500
<b>Message system</b>	
<b>Number of alarm classes</b>	32
<b>Number of bit messages</b>	1000
<b>Number of analog messages</b>	25
<b>S7 alarm number procedure</b>	No
<b>System messages HMI</b>	Yes
<b>System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)</b>	Yes
<b>Number of characters per message</b>	80
<b>Number of process values per message</b>	8
<b>Acknowledgment groups</b>	Yes
<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>	50
<b>Data records per recipe</b>	100
<b>Entries per data record</b>	100
<b>Size of internal recipe memory</b>	256 kbyte
<b>Recipe memory expandable</b>	No
<b>Variables</b>	
<b>Number of variables per device</b>	800
<b>Number of variables per screen</b>	100
<b>Limit values</b>	Yes
<b>Multiplexing</b>	Yes
<b>Structs</b>	No

Arrays	Yes
<b>Images</b>	
Number of configurable images	250
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	100
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
Switch	Yes
Buttons	Yes
Graphic view	Yes
Icons	Yes
Geometric objects	Yes
<b>Complex image objects</b>	
Number of complex objects per screen	10
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	Yes
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	100
Number of graphics lists per project	100

Number of entries per graphics list	100
<b>Archiving</b>	
Number of archives per device	2
Number of entries per archive	10000
Message archive	Yes
Process value archive	Yes
<b>Archiving methods</b>	
Sequential archive	Yes
Short-term archive	Yes
<b>Memory location</b>	
Memory card	No
USB memory	Yes
Ethernet	No
<b>Data storage format</b>	
CSV	No
TXT	Yes
RDB	No
<b>Security</b>	
Number of user groups	50
Number of user rights	32
Number of users	50
Password export/import	Yes
SIMATIC Logon	No
<b>Character sets</b>	
<b>Keyboard fonts</b>	
US English	Yes
<b>Character sets</b>	
Tahoma	Yes
Arial	No
Courier New	No
WinCC flexible Standard	Yes
Ideographic languages	Yes
Font size freely scalable	Yes
<b>Transfer (upload/download)</b>	
MPI/PROFIBUS DP	No
USB	No
Ethernet	Yes
using external storage medium	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>	Yes
<b>SINUMERIK</b>	No
<b>SIMOTION</b>	Yes
<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>	Yes
<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>	141 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>	360 g
<b>Weight incl. packaging</b>	470 g

Status

Apr 14, 2014