



\*\*\*spare part\*\*\* SIMATIC HMI KTP400F Mobile with integrated acknowledgment button, EMERGENCY-OFF switch, touch and key operation, 4" widescreen TFT display, PROFINET interface, configurable from WinCC Comfort V13 SP1 with HSP

General information	
Product type designation	KTP400F Mobile
Display	
Design of display	TFT
Screen diagonal	4.3 in
Color display	Yes
Number of colors	16 777 216
Resolution (pixels)	
• Horizontal image resolution	480 pixel
• Vertical image resolution	272 pixel
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
• Backlight dimmable	Yes; 0-100 %
Control elements	
Keyboard fonts	
• Function keys	
— Number of function keys	4
— Number of function keys with LEDs	4
• Keys with LED	Yes
• Numeric keyboard	Yes; Onscreen keyboard
• alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
• Design as touch screen	Yes
• Design as multi-touch screen	No
Special operator controls	
• Stop button (forced blocking)	Yes
• Emergency stop button (illuminated and forced blocking)	Yes
• Acknowledgement button (3-stage)	Yes
• Key-operated switch	No
• Illuminated pushbutton	Yes
Camera	
• integrated camera	No
Expansions for operator control of the process	
• DP direct LEDs (LEDs as S7 output I/O)	
— F1...Fx	4
• Direct keys (keys as S7 input I/O)	
— F1...Fx	4
• Direct keys (touch buttons as S7 input I/O)	32
Supply voltage	
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)	210 mA
Starting current inrush I <sup>2</sup> t	0.37 A <sup>2</sup> ·s
<b>Power</b>	
Active power input, typ.	5 W
<b>Processor</b>	
Processor type	ARM
<b>Memory</b>	
Flash	Yes
RAM	Yes
Memory available for user data	4 Mbyte
<b>Type of output</b>	
Power LED	No
LED for safe	No
LED for communication	No
LED for battery	No
Vibrations	No
<b>Time of day</b>	
Clock	
<ul style="list-style-type: none"> <li>• Hardware clock (real-time)</li> <li>• retentive</li> <li>• synchronizable</li> </ul>	 Yes Yes Yes
<b>Interfaces</b>	
Number of industrial Ethernet interfaces	1
Number of PROFINET interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of RS 232 interfaces	0
Number of USB interfaces	1; USB 2.0
Number of wireless interfaces	0
Number of SD card slots	0
<b>Protocols</b>	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
PROFIsafe	Yes
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
<ul style="list-style-type: none"> <li>• TCP/IP</li> <li>• DHCP</li> <li>• SNMP</li> <li>• DCP</li> <li>• LLDP</li> </ul>	 Yes Yes Yes Yes Yes
WEB characteristics	
<ul style="list-style-type: none"> <li>• HTTP</li> <li>• HTTPS</li> <li>• HTML</li> <li>• XML</li> <li>• CSS</li> <li>• Active X</li> <li>• JavaScript</li> <li>• Java VM</li> </ul>	 Yes Yes Yes No Yes No Yes No
Further protocols	
<ul style="list-style-type: none"> <li>• MODBUS</li> <li>• other bus systems</li> </ul>	 Yes No
<b>communication functions / header</b>	

<b>Wireless communication</b>	
<ul style="list-style-type: none"> <li>• supported standards <ul style="list-style-type: none"> <li>— Radio standard WLAN 802.11</li> <li>— Bluetooth radio standard</li> </ul> </li> </ul>	 No No
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnoses</b>	
<ul style="list-style-type: none"> <li>• Diagnostic information readable</li> </ul>	Yes
<b>EMC</b>	
<b>Emission of radio interference acc. to EN 55 011</b>	
<ul style="list-style-type: none"> <li>• Limit class A, for use in industrial areas</li> <li>• Limit class B, for use in residential areas</li> </ul>	 Yes No
<b>Degree and class of protection</b>	
IP65 (all-round)	Yes
<b>Standards, approvals, certificates</b>	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Suitable for safety functions	Yes
Marine approval	Yes
<b>Highest safety class achievable in safety mode</b>	
<ul style="list-style-type: none"> <li>• Performance level according to ISO 13849-1</li> <li>• SIL acc. to IEC 61508</li> </ul>	 PLe SIL 3
<b>Use in hazardous areas</b>	
<ul style="list-style-type: none"> <li>• ATEX Zone 2</li> <li>• ATEX Zone 22</li> <li>• IECEx Zone 2</li> <li>• IECEx Zone 22</li> <li>• cULus Class I Zone 1</li> <li>• cULus Class I Zone 2, Division 2</li> <li>• FM Class I Division 2</li> </ul>	 No No No No No No No
<b>Marine approval</b>	
<ul style="list-style-type: none"> <li>• Germanischer Lloyd (GL)</li> <li>• American Bureau of Shipping (ABS)</li> <li>• Bureau Veritas (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Korean Register of Shipping (KRS)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (Class NK)</li> <li>• Polski Rejestr Statkow (PRS)</li> <li>• Chinese Classification Society (CCS)</li> </ul>	 Yes Yes Yes Yes Yes Yes Yes No Yes
<b>Ambient conditions</b>	
<b>Free fall</b>	
<ul style="list-style-type: none"> <li>• Fall height, max.</li> </ul>	1.2 m
<b>Ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>	 0 °C 45 °C
<b>Ambient temperature during storage/transportation</b>	
<ul style="list-style-type: none"> <li>• min.</li> <li>• max.</li> </ul>	 -20 °C 60 °C
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>• Operation, max.</li> </ul>	90 %
<b>Operating systems</b>	
<b>pre-installed operating system</b>	
<ul style="list-style-type: none"> <li>• Windows CE</li> </ul>	Yes
<b>configuration / header</b>	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes

Recipe management	Yes
<b>Configuration software</b>	
• STEP 7 Basic (TIA Portal)	No
• STEP 7 Professional (TIA Portal)	No
• WinCC flexible Compact	No
• WinCC flexible Standard	No
• WinCC flexible Advanced	No
• WinCC Basic (TIA Portal)	No
• WinCC Comfort (TIA Portal)	Yes
• WinCC Advanced (TIA Portal)	Yes
• WinCC Professional (TIA Portal)	Yes
<b>Languages</b>	
<b>Online languages</b>	
• Number of online/runtime languages	32
<b>Project languages</b>	
• Languages per project	32
<b>Functionality under WinCC (TIA Portal)</b>	
Libraries	Yes
<b>Applications/options</b>	
• Web browser	Yes
• Pocket Word	No
• Pocket Excel	No
• PDF Viewer	Yes
• Media Player	No
• SIMATIC WinCC Sm@rtServer	Yes
• SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
<b>Task planner</b>	
• time-controlled	Yes
• task-controlled	Yes
<b>Help system</b>	
• Number of characters per info text	500
<b>Multiproject</b>	
• Number of projects (internal)	0
• Number of projects (external)	0
<b>Message system</b>	
• Number of alarm classes	32
• Bit messages	
— Number of bit messages	4 000
• Analog messages	
— Number of analog messages	200
• S7 alarm number procedure	Yes
• System messages HMI	Yes
• System event, more (SIMATIC S7, SINUMERIK, SIMOTION, ...)	Yes
• Number of characters per message	80
• Number of process values per message	8
• Acknowledgment groups	Yes
• Message indicator	Yes
• Message buffer	
— Number of entries	1 024
— Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
<b>Recipe management</b>	
• Number of recipes	300
• Data records per recipe	500
• Entries per data record	1 000
• Size of internal recipe memory	2 Mbyte
• Recipe memory expandable	Yes
<b>Variables</b>	

- Number of variables per device 2 048
- Number of variables per screen 50
- Limit values Yes
- Multiplexing Yes
- Structures Yes
- Arrays Yes

#### Images

- Number of configurable images 500
- Permanent window/default Yes
- Global image Yes
- Pop-up images Yes
- Slide-in images Yes
- Image selection by PLC Yes
- Image number in the PLC Yes

#### Image objects

- Number of objects per image 50
- 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
- Graphic display Yes
- Icons Yes
- Geometric objects Yes

#### Complex image objects

- Number of complex objects per screen 5
- Alarm view Yes
- Trend view Yes
- User view Yes
- Status/control Yes
- Sm@rtClient view Yes
- Recipe view Yes
- f(x) trend view Yes
- System diagnostics view Yes
- Media Player No
- HTML browser No
- PDF display No
- IP camera display Yes
- Bar graphs Yes
- Sliders Yes
- Pointer instruments Yes
- Analog/digital clock Yes

#### Lists

- Number of text lists per project 500
- Number of entries per text list 500
- Number of graphics lists per project 500
- Number of entries per graphics list 500

#### Archiving

- Number of archives per device 50
- Number of entries per archive 20 000
- Message archive Yes
- Process value archive Yes
- Archiving methods
  - Sequential archive Yes
  - Short-term archive Yes
- Memory location
  - Memory card No
  - USB memory Yes
  - Ethernet Yes
- Data storage format

— CSV	Yes
— TXT	No
— RDB	Yes
<b>Security</b>	
• Number of user groups	50
• Number of user rights	32
• Number of users	50
• Password export/import	Yes
• SIMATIC Logon	Yes
<b>Logging through printer</b>	
• Alarms	Yes
• Report (shift log)	Yes
• Hardcopy	Yes
• Electronic print to file	No
<b>Character sets</b>	
• Keyboard fonts	
— US English	Yes
<b>Transfer (upload/download)</b>	
• MPI/PROFIBUS DP	No
• USB	No
• Ethernet	Yes
• Wireless LAN	No
• using external storage medium	Yes; Backup/restore
<b>Process coupling</b>	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes; WinAC RTX
• SINUMERIK	Yes; without NC channel
• SIMOTION	Yes
• 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
• OPC UA Client	Yes
• OPC UA Server	Yes
<b>Service tools/configuration aids</b>	
• Backup/Restore manually	Yes
• Backup/Restore automatically	No
• Simulation	Yes
• Device switchover	Yes
<b>Peripherals/Options</b>	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HMI SD memory card: Secure Digital memory card	No
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes
SIMATIC HMI USB stick	Yes
Network camera	Yes
Additional software components loadable	Yes; SIMATIC options
<b>Mechanics/material</b>	
Enclosure material (front)	
• Plastic	Yes
• Aluminum	No

• Stainless steel

No

**Weights**

Weight (without packaging)	0.7 kg
Weight (with packaging)	0.95 kg

**Classifications**

	Version	Classification
eClass	14	27-33-02-02
eClass	12	27-33-02-02
eClass	9.1	27-33-02-02
eClass	9	27-33-02-02
eClass	8	27-24-23-03
eClass	7.1	27-24-23-03
eClass	6	27-24-23-03
ETIM	10	EC001427
ETIM	9	EC001427
ETIM	8	EC001427
ETIM	7	EC001427
IDEA	4	6607
UNSPSC	15	43-21-15-06

**Approvals / Certificates**

**General Product Approval**

[Manufacturer Declaration](#)

[Miscellaneous](#)



[KC](#)

[PROFINET](#)

**General Product Approval**

**EMV**

**For use in hazardous locations**



[KC](#)



[CCC-Ex](#)

[FM](#)

**For use in hazardous locations**

**Maritime application**



[Type Examination Certificate](#)



IECEX

[Miscellaneous](#)



ABS



BUREAU VERITAS

**Maritime application**



DNV



LRS

[NK / Nippon Kaiji Kyokai](#)



RINA



RMRS

[CCS \(China Classification Society\)](#)

**Maritime application**



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KOREAN REGISTER

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