## **SIEMENS**

## **Data sheet**

SIMATIC HMI KTP700 Mobile, 7.0" TFT display, 800x 480 pixel, 16m colors, key and touch operation, 8 function keys, 1x PROFINET/Industrial Ethernet interface, 1x multimedia card, 1x USB, configurable from WinCC Comfort V13 SP1



General information	
Product type designation	KTP700 Mobile
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	7 in
Color display	Yes
Number of colors	16 777 216
Resolution (pixels)	
<ul> <li>Horizontal image resolution</li> </ul>	800 pixel
Vertical image resolution	480 pixel
Backlighting	
<ul> <li>MTBF backlighting (at 25 °C)</li> </ul>	50 000 h
Backlight dimmable	Yes; 0-100 %
Control elements	
Keyboard fonts	
<ul> <li>Function keys</li> </ul>	
<ul> <li>Number of function keys</li> </ul>	8
<ul> <li>Number of function keys with LEDs</li> </ul>	8
Keys with LED	Yes
<ul> <li>Numeric keyboard</li> </ul>	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
<ul> <li>Design as touch screen</li> </ul>	Yes
Design as multi-touch screen	No
Special operator controls	
<ul> <li>Stop button (forced blocking)</li> </ul>	No
<ul> <li>Emergency stop button (illuminated and forced blocking)</li> </ul>	No
<ul> <li>Acknowledgement button (3-stage)</li> </ul>	No
Key-operated switch	No
Illuminated pushbutton	Yes
Camera	
integrated camera	No
Expansions for operator control of the process	
<ul> <li>DP direct LEDs (LEDs as S7 output I/O)</li> </ul>	
— F1Fx	8
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— F1Fx	8
Direct keys (touch buttons as S7 input I/O)	32
Supply voltage	
Type of supply voltage	DC

Pated value (DC)	24 \/
Rated value (DC)	24 V 19.2 V
permissible range, lower limit (DC)	19.2 V 28.8 V
permissible range, upper limit (DC)	20.0 V
Input current  Current concumption (reted value)	250 mA
Current consumption (rated value)	350 mA 0.135 A <sup>2</sup> ·s
Starting current inrush I²t Power	0.135 A <sup>-1</sup> S
	8.5 W
Active power input, typ.  Processor	0.0 VV
	ARM
Processor type Memory	ARW
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	12 Mbyte
Power LED	No
LED for safe	No
LED for communication	No
LED for battery	No
Vibrations	No
Time of day	
Clock	
Hardware clock (real-time)	Yes
• retentive	Yes
synchronizable	Yes
Interfaces	
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	1
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	No
• CSS	Yes
• Active X	No
JavaScript	Yes
• Java VM	No
Further protocols	V
MODBUS	Yes
other bus systems	No
communication functions / header	

Wireless communication	
supported standards	
— Radio standard WLAN 802.11	No
<ul> <li>Bluetooth radio standard</li> </ul>	No
Interrupts/diagnostics/status information	
Diagnoses	
Diagnostic information readable	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
Limit class B, for use in residential areas	No
Degree and class of protection	
IP65 (all-round)	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Suitable for safety functions	No
Marine approval	Yes
Ecological footprint	
environmental product declaration	Yes
Global warming potential	
— global warming potential, (total) [CO2 eq]	157 kg
— global warming potential, (during production) [CO2	45 kg
eq]	10.19
<ul> <li>global warming potential, (during operation) [CO2</li> </ul>	114 kg
eq]	
<ul> <li>— global warming potential, (after end of life cycle)</li> <li>[CO2 eq]</li> </ul>	-1.55 kg
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	none
• SIL acc. to IEC 61508	No
Use in hazardous areas	
ATEX Zone 2	No
ATEX Zone 22	No
• IECEx Zone 2	No
• IECEx Zone 22	No
• cULus Class I Zone 1	No
• cULus Class I Zone 2, Division 2	No
• FM Class I Division 2	No
Marine approval	
Germanischer Lloyd (GL)	Yes
American Bureau of Shipping (ABS)	Yes
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	Yes
Korean Register of Shipping (KRS)	No
Lloyds Register of Shipping (LRS)	Yes
Nippon Kaiji Kyokai (Class NK)	Yes
Polski Rejestr Statkow (PRS)	No
Chinese Classification Society (CCS)	No
Ambient conditions	
Free fall	
• Fall height, max.	1.2 m
Ambient temperature during operation	
• min.	0 °C
• max.	45 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	

Operation, max.	90 %
Operating systems	
pre-installed operating system	
Windows CE	Yes
configuration / header	163
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
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
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	165
Web browser	Yes
Pocket Word	No
Pocket Excel	No
PDF Viewer	Yes
Media Player	No
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WINCG SINGITGETVE!     SIMATIC WINCG Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	165
• time-controlled	Yes
task-controlled	Yes
	165
Help system	500
Number of characters per info text     Multiproject	
Number of projects (internal)	0
Number of projects (internal)     Number of projects (external)	0
Message system  • Number of alarm classes	32
	JZ
Bit messages  Number of hit messages	4,000
— Number of bit messages	4 000
Analog messages     Number of applied messages	200
— Number of analog messages	200
S7 alarm number procedure     System manages HMI	Yes
System messages HMI     System event more (SIMATIC ST. SINUMERIK	Yes
System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)  A Number of characters are masses.	Yes
Number of characters per message	80
<ul> <li>Number of process values per message</li> </ul>	8
<ul> <li>Acknowledgment groups</li> </ul>	Yes
Message indicator	Yes
Message buffer	
<ul><li>Number of entries</li></ul>	1 024
<ul><li>— Circulating buffer</li></ul>	Yes

rotontivo	Voc
retentive     maintenance-free	Yes Yes
	TES
Recipe management	300
Number of recipes	
Data records per recipe     This pay data record	500
Entries per data record     Cina of internal regime manner.	1 000
Size of internal recipe memory  Paring recognitions and the	2 Mbyte
Recipe memory expandable  Veriables	Yes
Variables	2.040
Number of variables per device     Number of variables per agrees	2 048
Number of variables per screen     Limit values	400 Voc
Limit values     Multiple vings	Yes
Multiplexing     Chrystyres	Yes
• Structures	Yes
• Arrays	Yes
Images	500
Number of configurable images     Dermanent window/default	500 Voa
Permanent window/default     Clobal image.	Yes
Global image     Image selection by PLC	Yes
Image selection by PLC     Image number in the PLC	Yes
Image number in the PLC	Yes
Image objects	400
Number of objects per image     Tout fields	400 Voa
• Text fields	Yes
• I/O fields	Yes
Graphic I/O fields (graphics list)  Complete I/O fields (footblook)	Yes
Symbolic I/O fields (text list)  Pate time fields	Yes
Date/time fields     Outleters	Yes
Switches	Yes
Graphic display	Yes
• Icons	Yes
Geometric objects	Yes
Complex image objects	20
Number of complex objects per screen     Alexentique	20 Voc
Alarm view     Translaview	Yes
• Trend view	Yes
User view     Status/control	Yes
Status/control     Septiment view	Yes
Sm@rtClient view     Regime view	Yes
Recipe view      f(x) translations	Yes
• f(x) trend view	Yes
System diagnostics view     Modia Player	Yes
Media Player     Par graphs	No Vos
Bar graphs     Sliders	Yes
Sliders     Deinter instruments	Yes
Pointer instruments     Applicately clock	Yes
Analog/digital clock     Lists	Yes
Lists	500
Number of text lists per project     Number of entries per text list	500
Number of graphics lists per project	500
Number of graphics lists per project     Number of entries per graphics list.	500
Number of entries per graphics list  Archiving	500
Archiving	50
Number of archives per device     Number of entries per archive	50
Number of entries per archive     Meanage archive	20 000 Voa
Message archive     Process value problem	Yes
Process value archive  And hide a prothed a	Yes
Archiving methods	W
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	

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— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
— CSV	Yes
— TXT	No
— RDB	Yes
Security	
<ul> <li>Number of user groups</li> </ul>	50
<ul> <li>Number of user rights</li> </ul>	32
<ul> <li>Number of users</li> </ul>	50
<ul> <li>Password export/import</li> </ul>	Yes
SIMATIC Logon	Yes
Logging through printer	
• Alarms	Yes
• Report (shift log)	Yes
<ul> <li>Hardcopy</li> </ul>	No
Electronic print to file	No
Character sets	
Keyboard fonts	
— US English	Yes
Transfer (upload/download)	
MPI/PROFIBUS DP	No
• USB	No
• Ethernet	Yes
Wireless LAN	No
using external storage medium	Yes; Backup/restore
Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes; WinAC RTX
• SINUMERIK	Yes
• SIMOTION	Yes
<ul><li>Allen Bradley (EtherNet/IP)</li></ul>	Yes
<ul><li>Allen Bradley (DF1)</li></ul>	No
Mitsubishi (MC TCP/IP)	Yes
<ul><li>Mitsubishi (FX)</li></ul>	No
OMRON (FINS TCP)	No
<ul> <li>OMRON (LINK/Multilink)</li> </ul>	No
<ul> <li>Modicon (Modbus TCP/IP)</li> </ul>	Yes
<ul><li>Modicon (Modbus)</li></ul>	No
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
Backup/Restore manually	Yes
<ul> <li>Backup/Restore automatically</li> </ul>	Yes
<ul><li>Simulation</li></ul>	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
USB memory	Yes
Network camera	Yes
Additional software components loadable	Yes; SIMATIC options
Mechanics/material	
Enclosure material (front)	
Plastic	Yes

• Aluminum	No
Stainless steel	No
Weights	
Weight (without packaging)	1.2 kg
Weight (with packaging)	1.3 kg

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