SIEMENS

Data sheet

6AV2125-2GB03-0AX0



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)	
 Horizontal image resolution 	800 pixel
 Vertical image resolution 	480 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 	8
 — Number of function keys with LEDs 	8
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) 	No
 Emergency stop button (illuminated and forced blocking) 	No
 Acknowledgement button (3-stage) 	No
 Key-operated switch 	No
 Illuminated pushbutton 	Yes
Camera	
integrated camera	No
Expansions for operator control of the process	
 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
Input current	
Current consumption (rated value)	350 mA
Starting current inrush I ² t	0.135 A ² ·s
Power	
Active power input, typ.	8.5 W
	0.5 W
Processor	1011
Processor type	ARM
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
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	
Number of USB interfaces Number of wireless interfaces	1; USB 2.0
Number of SD card slots	0
Protocols	1
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	
• MODBUS	Yes
other bus systems	No
communication functions / header	
Wireless communication	

a supported standards	
supported standards Dedic standard M/LAN 202 11	No
— Radio standard WLAN 802.11	No
— Bluetooth radio standard	No
Interrupts/diagnostics/status information	
Diagnoses	Vac
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 A, for use in industrial areas Limit class B, for use in residential areas	No
Degree and class of protection	NO
	Yes
IP65 (all-round)	Tes
Standards, approvals, certificates	Vec
CE mark cULus	Yes Yes
	Yes
RCM (formerly C-TICK) KC approval	No; Available soon
Suitable for safety functions	No
Marine approval	Yes
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
Germanischer Lloyd (GL)American Bureau of Shipping (ABS)	Yes
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) 	Yes No; Available soon
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) 	Yes No; Available soon Yes
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) 	Yes No; Available soon Yes No
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) 	Yes No; Available soon Yes No Yes
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) 	Yes No; Available soon Yes No Yes Yes
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 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. 	Yes No; Available soon Yes No Yes Yes No No 1.2 m
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 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. 	Yes No; Available soon Yes No Yes Yes No No No 1.2 m 0 °C 45 °C
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. Ambient temperature during storage/transportation min. max. 	Yes No; Available soon Yes No Yes Yes No No No 1.2 m
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 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. Ambient temperature during storage/transportation min. max. Relative humidity Operation, max. Operation, max. Operation systems pre-installed operating system Windows CE configuration / header	Yes No; Available soon Yes No Yes Yes No No 1.2 m 0 °C 45 °C 45 °C -20 °C 60 °C 90 %
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. Ambient temperature during storage/transportation min. max. Relative humidity Operation, max. Operation, max. Operation gystems Windows CE configuration / header Message indicator 	Yes No; Available soon Yes No Yes Yes No No No 1.2 m 0 °C 45 °C -20 °C 60 °C 90 %
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. Ambient temperature during storage/transportation min. max. Relative humidity Operating systems pre-installed operating system Windows CE configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) 	Yes No; Available soon Yes No Yes Yes No No No 1.2 m 0 °C 45 °C -20 °C 60 °C 90 % Yes
 Germanischer Lloyd (GL) American Bureau of Shipping (ABS) Bureau Veritas (BV) Det Norske Veritas (DNV) Korean Register of Shipping (KRS) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (Class NK) Polski Rejestr Statkow (PRS) Chinese Classification Society (CCS) Ambient conditions Free fall Fall height, max. Ambient temperature during operation min. max. Ambient temperature during storage/transportation min. max. Relative humidity Operation, max. Operation, max. Operation gystems windows CE configuration / header Message indicator 	Yes No; Available soon Yes No Yes Yes No O °C 45 °C -20 °C 60 °C 90 % Yes Yes Yes Yes Yes Yes Yes

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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	
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
Task planner	
time-controlled	Yes
task-controlled	Yes
Help system	
Number of characters per info text	500
Multiproject	
Number of projects (internal)	0
Number of projects (external)	0
Message system	
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 ressages finitian System event, more (SIMATIC S7, SINUMERIK, 	Yes
SIMOTION,)	
 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
Recipe management	
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

2 048
400
Yes
Yes
Yes
Yes
res
500
Yes
Yes
Yes
Yes
400
Yes
Yes
Yes
Yes
Yes
Yes
Yes
20
Yes
No
Yes
Yes
Yes
Yes
500
500
500
500
50
20 000
Yes
Yes
Yes
Yes
Yes
Yes
Yes Yes
Yes Yes
Yes Yes Yes
Yes Yes Yes
Yes Yes Yes Yes

Security	
 Number of user groups 	50
 Number of user rights 	32
Number of users	50
 Password export/import 	Yes
SIMATIC Logon	Yes
Logging through printer	
Alarms	Yes
 Report (shift log) 	Yes
Hardcopy	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
 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
Service tools/configuration aids	
Backup/Restore manually	Yes
Backup/Restore automatically	Yes
Simulation	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	Yes
card	
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
Dimensions	
	248.4 mm
Width of the housing front	248.4 mm 171.7 mm
Height of housing front	

Weights	
Weight (without packaging)	1.2 kg
Weight (with packaging)	1.3 kg
last modified:	3/2/2021 🖸

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