SIEMENS

Data sheet

6AV2125-2JB23-0AX0



SIMATIC HMI KTP900F Mobile, 9.0" TFT display, 800x 480 pixel, 16m colors, key and touch operation, 10 function keys, 1x PROFINET/Industrial Ethernet interface, 1x multimedia card, 1x USB, Key-operated switch, acknowledgement button, 1 emergency stop/stop button configurable from WinCC Comfort V13 SP1

General information	
Product type designation	KTP900F Mobile
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	9 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 	10
 — Number of function keys with LEDs 	10
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 	Yes
 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)	450 mA
Starting current inrush I ² t	0.135 A ² ·s
	0.133 A 'S
Power	
Active power input, typ.	11 W
Processor	
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	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
	Yes
PROFIsafe	No
PROFIBUS	
EtherNet/IP	Yes
MPI Protocols (Ethernet)	No
Protocols (Ethernet) • TCP/IP	Vac
• TCP/IP • DHCP	Yes Yes
• SNMP	Yes
	Yes
LLDP	Yes
WEB characteristics • HTTP	Voo
• HTTP • HTTPS	Yes Yes
• HTTPS • HTML	Yes
• HTML • XML	No
• AML • CSS	Yes
• CSS • Active X	
	No
JavaScript	Yes
• Java VM	No
Further protocols	Voo
MODBUS	Yes
other bus systems	No
communication functions / header	
Wireless communication	

 supported standards 	
supported standards Dadia standard W/ AN 202 11	No
— Radio standard WLAN 802.11 Ruptooth radio standard	No
— Bluetooth radio standard	No
Interrupts/diagnostics/status information	
Diagnoses	Voc
Diagnostic information readable EMC	Yes
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	INU
IP65 (all-round)	Yes
Standards, approvals, certificates	103
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	No; Available soon
Suitable for safety functions	Yes
Marine approval	Yes
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	PLe
• SIL acc. to IEC 61508	SIL 3
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	N
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 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) 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
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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. 	Yes No; Available soon Yes No Yes Yes No No No 1.2 m 0 °C 45 °C
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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. 	Yes No; Available soon Yes No Yes Yes No No No
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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. Operating system Windows CE 	Yes No; Available soon Yes No 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 Operation, max. Operation, max. Operating systems Windows CE configuration / header 	Yes No; Available soon Yes No Yes Yes No 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 0 °C 45 °C -20 °C 60 °C 90 % Yes
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Desine meneroment	Vee
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 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

Variables	
	2.049
Number of variables per device	2 048
Number of variables per screen	400
• Limit values	Yes
Multiplexing	Yes
Structures	Yes
Arrays	Yes
Images	500
Number of configurable images	500
Permanent window/default	Yes
Global image	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Number of objects per image	400
• 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	20
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
• Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
Analog/digital clock	Yes
Lists	500
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	50
Number of archives per device Number of entries per archive	
Number of entries per archive Message archive	20 000 Yes
 Message archive Process value archive 	Yes
Archiving methods	100
-	Yes
 — Sequential archive — Short-term archive 	Yes
Memory location	Van
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	Vee
- CSV	Yes
— TXT	No
— RDB	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; without NC channel
SIMOTION	Yes
 Allen Bradley (EtherNet/IP) 	Yes
 Allen Bradley (DF1) 	No
Mitsubishi (MC TCP/IP)	Yes
 Mitsubishi (FX) 	Yes
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	
	207.5 mm
Width of the housing front	307.5 mm
Height of housing front	223.5 mm

Weights	
Weight (without packaging)	1.6 kg
Weight (with packaging)	1.7 kg
last modified:	3/2/2021 🖸

 $Pobrano\ z\ :\ https://panele-hmi.pl/panel-operatorski-9-ktp900f-mobile-siemens-6av2125-2jb23-0ax0$