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	
 DP direct LEDs (LEDs as S7 output I/O) 	
— F1Fx	10
 Direct keys (keys as S7 input I/O) 	
— F1Fx	10
 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
Power	
Active power input, typ.	11 W
Processor	
Processor type	ARM
Memory	7 0 3 91
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
PROFIsafe	Yes
PROFIBUS	No
EtherNet/IP	Yes
	No
Protocols (Ethernet)	Vee
	Yes
	Yes
• SNMP • 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	

	Vec
MODBUS	Yes
• other bus systems	No
communication functions / header	
Wireless communication	
supported standards	
— Radio standard WLAN 802.11	No
— Bluetooth radio standard	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	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 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; Available soon
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	10 m
Fall height, max.	1.2 m
Ambient temperature during operation	0.00
• min.	0 °C
max. Ambient temperature during storage/transportation	45 °C
Ambient temperature during storage/transportation	20 °C
• min.	-20 °C
• max.	0° C
Relative humidity	00.0/
• Operation, max.	90 %
Operating systems	
pre-installed operating system	
Windows CE	Yes
configuration / header	

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	
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, 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
Recipe management	
Number of recipes	300

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• Message archiveYes• Process value archiveYes• Archiving methodsYes- Sequential archiveYes- Short-term archiveYes• Memory locationYes- Memory cardYes- USB memoryYes		20 000
 Process value archive Archiving methods Sequential archive Yes Short-term archive Yes Memory location Memory card Yes 		
- Sequential archive Yes - Short-term archive Yes • Memory location Yes - Memory card Yes - USB memory Yes	-	
- Sequential archive Yes - Short-term archive Yes • Memory location Yes - Memory card Yes - USB memory Yes	Archiving methods	
Short-term archive Yes • Memory location Yes - Memory card Yes - USB memory Yes	-	Yes
— Memory card Yes — USB memory Yes		Yes
— Memory card Yes — USB memory Yes	Memory location	
- USB memory Yes	-	Yes
Ethernet		Yes
	— Ethernet	Yes

Data storage format	
— 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 (KX)	Yes
OMRON (FINS TCP)	No
OMRON (LINK/Multilink)	No
Modicon (Modbus TCP/IP)	Yes
	No
Modicon (Modbus)	
OPC UA Client OPC UA Server	Yes
Service tools/configuration aids	Vac
Backup/Restore manually Backup/Restore automatically	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 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
Dimensions	
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
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