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)	
<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>	10
<ul> <li>Number of function keys with LEDs</li> </ul>	10
<ul> <li>Keys with LED</li> </ul>	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>	Yes
<ul> <li>Emergency stop button (illuminated and forced blocking)</li> </ul>	Yes
<ul> <li>Acknowledgement button (3-stage)</li> </ul>	Yes
Key-operated switch	Yes
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	10
<ul> <li>Direct keys (keys as S7 input I/O)</li> </ul>	
— F1Fx	10
Direct keys (touch buttons as S7 input I/O)	32
Supply voltage	
Type of supply voltage	DC

Pated value (DC)	24 V
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	450 mA
Current consumption (rated value)	450 mA 0.135 A <sup>2</sup> ·s
Starting current inrush I²t Power	0.135 A <sup>-1</sup> S
	11 W
Active power input, typ.  Processor	II W
	ARM
Processor type Memory	ARIVI
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	12 Mibyte
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
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	V
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	No You
• CSS	Yes
Active X     Invescript	No Vos
Java VM	Yes
Java VM  Further protocols	No
Further protocols	Von
MODBUS     other hus systems	Yes No
other bus systems     communication functions / header	110
- Theader	

No. 1	
Wireless communication	
supported standards	
— Radio standard WLAN 802.11	No
— Bluetooth radio standard	No
Interrupts/diagnostics/status information	
Diagnoses	V
Diagnostic information readable  FMC	Yes
EMC	
Emission of radio interference acc. to EN 55 011	V
<ul> <li>Limit class A, for use in industrial areas</li> <li>Limit class B, for use in residential areas</li> </ul>	Yes No
Degree and class of protection	NO
IP65 (all-round)	Yes
Standards, approvals, certificates	165
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
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	
<ul> <li>Germanischer Lloyd (GL)</li> </ul>	Yes
<ul> <li>American Bureau of Shipping (ABS)</li> </ul>	Yes
<ul> <li>Bureau Veritas (BV)</li> </ul>	Yes
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
<ul> <li>Korean Register of Shipping (KRS)</li> </ul>	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (Class NK)</li> </ul>	Yes
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No
Chinese Classification Society (CCS)	Yes
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	00.0/
Operation, max.	90 %
Operating systems	
pre-installed operating system	V
Windows CE	Yes
configuration / header	V
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
	Voc
Process value display (output) Process value default (input) possible	Yes Yes

Recipe management	Yes
	Tes
Configuration software	No
STEP 7 Basic (TIA Portal)  OTER 7 Perfectional (TIA Portal)	No No
STEP 7 Professional (TIA Portal)  Win CO florible Comment	No
WinCC flexible Compact	No
WinCC flexible Standard	No
WinCC flexible Advanced	No
WinCC Basic (TIA Portal)	No
<ul> <li>WinCC Comfort (TIA Portal)</li> </ul>	Yes
<ul> <li>WinCC Advanced (TIA Portal)</li> </ul>	Yes
WinCC Professional (TIA Portal)	Yes
Languages	
Online languages	
Number of online/runtime languages	32
Project languages	
<ul> <li>Languages per project</li> </ul>	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	163
	500
Number of characters per info text  Multiproject	300
Multiproject	0
Number of projects (internal)     Number of projects (external)	0
Number of projects (external)	0
Message system	20
Number of alarm classes	32
Bit messages	4,000
— Number of bit messages	4 000
Analog messages	
Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI	Yes
<ul> <li>System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)</li> </ul>	Yes
Number of characters per message	80
<ul> <li>Number of characters per message</li> <li>Number of process values per message</li> </ul>	8
•	Yes
Acknowledgment groups     Message indicator	Yes
Message indicator     Message buffer	105
Message buffer	4.004
— Number of entries	1 024
— Circulating buffer	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	
<ul> <li>Number of recipes</li> </ul>	300
Data records per recipe	500
Entries per data record	1 000
<ul> <li>Size of internal recipe memory</li> </ul>	2 Mbyte
Recipe memory expandable	Yes
Variables	

	0.010
Number of variables per device	2 048
Number of variables per screen	400
Limit values	Yes
Multiplexing	Yes
Structures	Yes
• Arrays	Yes
Images	
<ul> <li>Number of configurable images</li> </ul>	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	
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	V
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	V
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	
— CSV	Yes
— TXT	No
— RDB	Yes
Security	
Number of user groups	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
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	res, backuprestore
• S7-1200	Yes
• S7-1500	Yes
• S7-1500 • S7-200	
	Yes
• \$7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes; WinAC RTX
• SINUMERIK	Yes; without NC channel
• SIMOTION	Yes
Allen Bradley (EtherNet/IP)	Yes
<ul> <li>Allen Bradley (DF1)</li> </ul>	No
Mitsubishi (MC TCP/IP)	Yes
<ul><li>Mitsubishi (FX)</li></ul>	Yes
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	
<ul> <li>Backup/Restore manually</li> </ul>	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	
	1.6 kg
Weight (with packaging)	1.6 kg
Weight (with packaging)	1.7 Ng
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