SIEMENS

Data sheet

6AV2125-2DB23-0AX0



SIMATIC HMI KTP400F Mobile with integrated acknowledgement button, emergency switching-off switch, Touch and Key operation, 4" widescreen TFT display, PROFINET interface, configurable from WinCC Comfort V13 SP1 with HSP

Product type designation	KTP400F Mobile
	RTF400F Mobile
Display	
Design of display	TFT
Screen diagonal	4.3 in
Color display	Yes
Number of colors	16 777 216
Resolution (pixels)	
Horizontal image resolution	480 pixel
 Vertical image resolution 	272 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 	4
 — Number of function keys with LEDs 	4
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 	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, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	210 mA
Starting current inrush I ² t	0.37 A ² ·s
Power	0.01 A 3
	E MI
Active power input, typ.	5 W
Processor	
Processor type	ARM
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	4 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	0
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	
• 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	

 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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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

Number of variables per device Number of variables per screen Sol Limit values Number of variables per screen Sol Limit values Yes Arrays Yes Arrays Yes Arrays Yes Arrays Yes Ves Solutores Ves Ves Solutores Ves Solutores Ves Ves Ves Solutores Ves Ve	Variables	
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• Pop-up images Yes • Silde-in images Yes • Image selection by PLC Yes • Image inumber in the PLC Yes • Number of objects per image 50 • Text fields Yes • Of fields Yes • Of fields Yes • Symbolic U0 fields (graphics list) Yes • Symbolic U0 fields (text list) Yes • Caraphic I/O fields Yes • Caraphic I/O fields (text list) Yes • Caraphic I/O fields Yes • Statuscontrol Yes • Statuscontrol Yes • Statuscontrol Yes • Sidiers Yes • For Giaphay Yes • Forol fields Yes •		
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— Sequential archive Yes — Short-term archive Yes		Yes
— Short-term archive Yes	-	
Memory location		Yes
	Memory location	
— Memory card No	-	
— USB memory Yes	— USB memory	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	Yes
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)	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	No
Simulation	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	No
SIMATIC HIM Minimenory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory	No
card	
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes
SIMATIC HMI USB stick	Yes
Network camera	Yes
Additional software components loadable	Yes; SIMATIC options
Additional Software components loadable	

Mechanics/material	
Enclosure material (front)	
Plastic	Yes
Aluminum	No
 Stainless steel 	No
Dimensions	
Width of the housing front	194 mm
Height of housing front	166 mm
Weights	
Weight (without packaging)	0.7 kg
Weight (with packaging)	0.95 kg

last modified:

3/2/2021 🖸