SIEMENS

Data sheet

6AV2145-8GB00-0AA0

SIMATIC HMI KTP700F Mobile HW, 7.0" TFT display, 800 x 480 pixel,16m colors key and touch operation, 6 function keys, 2 illuminated push-buttons, 1x PROFINET/Industrial Ethernet interface, 1x multimedia card, 1x USB, Key-operated switch, acknowledgement switch, emergency stop/stop button configurable from WinCC Comfort V15, handwheel



Product type designation KTP700F Display TFT widescreen display, LED backlighting Screen diagonal 7 in Color display Yes Number of colors 18 777 216 Resolution (pixels) 800 pixel • Horizontal image resolution 800 pixel • Vertical image resolution 480 pixel Backlight dimmable Yes: 0-100 % Control elements Yes: 0-100 % Control elements 6 • Function keys 6 • Function keys 6 • Number of function keys 6 • Keys with LED Yes: Onscreen keyboard • Stop button (forced blocking) Yes: Onscreen keyboard • Design as touth screen Yes • Design as multi-touch screen No Stop button (forced blocking) Yes • Keys operated swith Yes • Illuminated pushbutton Yes • Lesign as nulti-touch screen Yes • Design as nulti-touch screen Yes • Illuminated pushbutton Yes • In	General information	
Design of display TFT widescreen display, LED backlighting Screen diagonal 7 in Color display Yes Number of colors 16 777 216 Resolution (pixels) 800 pixel • Horizontal image resolution 800 pixel • Vertical image resolution 800 pixel • Wartical image resolution 800 pixel • Backlight dimmable Yes; 0.100 % Control elements 50 000 h • Backlight dimmable Yes; 0.100 % Control server 6 • Function keys 6 • Number of function keys with LEDs 6 • Kays with LED Yes; Onscreen keyboard • Design as nuch screen Yes; Onscreen keyboard • Design as nuch screen Yes • Stop button (forced blocking) Yes • Emergency stop button (lluminated and forced blocking) Yes • Key-operated switch Yes	Product type designation	KTP700F
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Color display Yes Number of colors 16 777 216 Resolution (pixels) 16 777 216 Resolution (pixels) 800 pixel • Vertical image resolution 480 pixel Backlighting 480 pixel Backlight dimmable Yes; 0-100 % Control elements 6 • Function keys 6 - Number of function keys 6 - Number of function keys with LEDs 6 • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • Design as multi-touch screen No Special operator controls Yes • Emergency stop button (illuminated and forced blocking) Yes • Key-operated switch Yes • Key-operated switch Yes • Integrated camera No Expansions for operator control of the process 2 • Integrated camera No Expansions for operator control of the process 2 • Integrated camera No Expansions for operator control of the process 2 Supply voitage DC <td>Design of display</td> <td>TFT widescreen display, LED backlighting</td>	Design of display	TFT widescreen display, LED backlighting
Number of colors 16 777 216 Resolution (pixels) 600 pixel • Horizontal image resolution 480 pixel Backlighting 480 pixel Backlighting (at 25 °C) 50 000 h • Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts • Function keys 6 - Number of function keys 7 - Number of function keys 6 - Numeric keyboard Yes; Onscreen keyboard - Notor operation 7 - Design as multi-louch screen No Special operator controls 7 - Stop button (lifuminated and forced Yes - Kex-overated switch Yes - Illuminated pushbutton Yes - Handwheel Yes <	Screen diagonal	7 in
Resolution (pixels) 800 pixel • Vertical 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 6 - Number of function keys with LEDs 6 • Keys with LED Yes; Onscreen keyboard • Numeric keyboard Yes; Onscreen keyboard • Design as touch screen Yes • Design as multi-touch screen No Special operator controls Yes • Stop button (forced blocking) Yes • Ack-oynelement button (3-stage) Yes • Key-operated switch Yes • Illuminated pushbutton Yes • Handwheel Yes • Integrated camera No Examptions for operator control of the process • Direct keys (louch buttons as S7 input I/O) 32 Supply voltage Direct keys (louch buttons as S7 input I/O)	Color display	Yes
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• MTBF backlighting (at 25 °C) 50 000 h • Backlight dimmable Yes; 0-100 % Control elements Keyboard fonts • Function keys 6 - Number of function keys 6 - Number of function keys with LEDs 6 • Keys with LED Yes; Onscreen keyboard • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • Design as touch screen Yes; Onscreen keyboard • Design as nutli-fouch screen No Special operator controls Yes • Emergency stop button (illuminated and forced blocking) Yes • Key-operated switch Yes • Key-operated switch Yes • Key-operated switch Yes • Handwheel Yes Camera No • Linergrated camera No Expansions for operator control of the process - • Direct keys (touch buttors as S7 input I/O) 32 Supply voltage DC	 Vertical image resolution 	480 pixel
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• Function keys 6 - Number of function keys with LEDs 6 • Keys with LED Yes • Numeric keyboard Yes; Onscreen keyboard • alphanumeric keyboard Yes; Onscreen keyboard • Design as touch screen Yes • Design as multi-touch screen No • Design as multi-touch screen No • Stop button (forced blocking) Yes • 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 • Handwheel Yes • Integrated camera No Expansions for operator control of the process Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) 32 Supply voltage DC	Control elements	
- Number of function keys6- Number of function keys with LEDs6• Keys with LEDYes• Numeric keyboardYes; Onscreen keyboard• alphanumeric keyboardYes; Onscreen keyboard• alphanumeric keyboardYes; Onscreen keyboard• Design as touch screenYes• Design as multi-touch screenNoSpecial operator controlsYes• Stop button (forced blocking)Yes• Emergency stop button (illuminated and forced blocking)Yes• Key-operated switchYes• Key-operated switchYes• Illuminated pushbuttonYes• Illuminated pushbuttonYes• Lingrated cameraNoExpansions for operator control of the processYes• Direct keys (touch buttons as S7 input I/O)32Supply voltageDC	Keyboard fonts	
- Number of function keys with LEDs6• Keys with LEDYes• Numeric keyboardYes; Onscreen keyboard• alphanumeric keyboardYes; Onscreen keyboard• alphanumeric keyboardYes; Onscreen keyboardTouch operationYes• Design as touch screenNo• Design as multi-touch screenNoSpecial operator controlsYes• Stop button (forced blocking)Yes• Emergency stop button (illuminated and forced blocking)Yes• Acknowledgement button (3-stage)Yes• Key-operated switchYes• Illuminated pushbuttonYes• HandwheelYes• LameraNoExpansions for operator control of the processNo• Direct keys (touch buttons as S7 input I/O)32Supply voltageDC	 Function keys 	
• Keys with LEDYes• Numeric keyboardYes; Onscreen keyboard• alphanumeric keyboardYes; Onscreen keyboard• alphanumeric keyboardYes; Onscreen keyboard• Design as touch screenYes• Design as multi-touch screenNo• Design as multi-touch screenNo• Stop button (forced blocking)Yes• Stop button (forced blocking)Yes• Emergency stop button (illuminated and forced blocking)Yes• Acknowledgement button (3-stage)Yes• Key-operated switchYes• Illuminated pushbuttonYes• Integrated cameraNoExpansions for operator control of the processNo• Direct keys (touch buttons as S7 input I/O)32Supply voltageDC	 — Number of function keys 	6
• Numeric keyboardYes; Onscreen keyboard• alphanumeric keyboardYes; Onscreen keyboardTouch operation•• Design as touch screenYes• Design as multi-touch screenNoSpecial operator controls•• Stop button (forced blocking)Yes• Stop button (forced blocking)Yes• Emergency stop button (illuminated and forced blocking)Yes• Acknowledgement button (3-stage)Yes• Key-operated switchYes• Illuminated pushbuttonYes• Integrated cameraNoExpansions for operator control of the processNo• Direct keys (touch buttons as S7 input I/O)32Supply voltageDC	 — Number of function keys with LEDs 	6
• alphanumeric keyboard Yes; Onscreen keyboard Touch operation Yes • Design as touch screen Yes • Design as multi-touch screen No Special operator controls Yes • 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 • Illuminated pushbutton Yes • Integrated camera No Expansions for operator control of the process No • Direct keys (touch buttons as S7 input I/O) 32 Supply voltage DC	 Keys with LED 	Yes
Touch operation Yes • Design as touch screen No • Design as multi-touch screen No Special operator controls Stop button (forced blocking) • 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 • Illuminated pushbutton Yes • Illuminated pushbutton Yes • Landwheel Yes • Integrated camera No • Direct keys (touch buttons as S7 input I/O) 32 Supply voltage DC	 Numeric keyboard 	Yes; Onscreen keyboard
• Design as touch screenYes• Design as multi-touch screenNoSpecial operator controls• Stop button (forced blocking)Yes• Emergency stop button (illuminated and forced blocking)Yes• Acknowledgement button (3-stage)Yes• Key-operated switchYes• Illuminated pushbuttonYes• HandwheelYes• integrated cameraNo• integrated cameraNo• Direct keys (touch buttons as S7 input I/O)32Supply voltageDC	 alphanumeric keyboard 	Yes; Onscreen keyboard
• Design as multi-touch screen No Special operator controls	Touch operation	
Special operator controls Yes • 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 • Handwheel Yes • integrated camera No • integrated camera No • Direct keys (touch buttons as S7 input I/O) 32 Supply voltage DC	 Design as touch screen 	Yes
• Stop button (forced blocking)Yes• Emergency stop button (illuminated and forced blocking)Yes• Acknowledgement button (3-stage)Yes• Key-operated switchYes• Illuminated pushbuttonYes• Illuminated pushbuttonYes• HandwheelYesCameraNo• integrated cameraNoExpansions for operator control of the process • Direct keys (touch buttons as S7 input I/O)32Supply voltageDC	 Design as multi-touch screen 	No
• Emergency stop button (illuminated and forced blocking) Yes • Acknowledgement button (3-stage) Yes • Key-operated switch Yes • Illuminated pushbutton Yes • Illuminated pushbutton Yes • Handwheel Yes Camera No • integrated camera No Expansions for operator control of the process 32 • Direct keys (touch buttons as S7 input I/O) 32 Supply voltage DC	Special operator controls	
blocking) Yes • Acknowledgement button (3-stage) Yes • Key-operated switch Yes • Illuminated pushbutton Yes • Handwheel Yes Camera No • integrated camera No Expansions for operator control of the process 32 • Direct keys (touch buttons as S7 input I/O) 32 Supply voltage DC	 Stop button (forced blocking) 	Yes
• Key-operated switchYes• Illuminated pushbuttonYes• HandwheelYesCameraYes• integrated cameraNoExpansions for operator control of the process32• Direct keys (touch buttons as S7 input I/O)32Supply voltageDC		Yes
	 Acknowledgement button (3-stage) 	Yes
• Handwheel Yes Camera No • 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	 Key-operated switch 	Yes
Camera No • integrated camera No Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) Supply voltage 32 Type of supply voltage DC	 Illuminated pushbutton 	Yes
• integrated camera No Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) • Direct keys (touch buttons as S7 input I/O) 32 Supply voltage DC	Handwheel	Yes
Expansions for operator control of the process • Direct keys (touch buttons as S7 input I/O) 32 Supply voltage Type of supply voltage DC	Camera	
Direct keys (touch buttons as S7 input I/O) 32 Supply voltage Type of supply voltage DC	integrated camera	No
Supply voltage Type of supply voltage DC	Expansions for operator control of the process	
Type of supply voltage DC	 Direct keys (touch buttons as S7 input I/O) 	32
	Supply voltage	
Rated value (DC) 24 V	Type of supply voltage	DC
	Rated value (DC)	24 V

normiasible range lawer limit (DC)	40.01/
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
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
PROFIsafe	Yes
PROFIBUS	No
EtherNet/IP	Yes
MPI	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	N.
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML • CSS	No Yes
Active X	
	No Yes
 JavaScript Java VM 	Yes No
• Java VM Further protocols	
MODBUS	Yes
other bus systems	No
communication functions / header	
Wireless communication	
supported standards	
Radio standard WLAN 802.11	No
— Bluetooth radio standard	No
Degree and class of protection	
IP65 (all-round)	Yes
Standards, approvals, certificates	

CE mark	Yes
UL approval	Yes
cULus	Yes
FM approval	No
RCM (formerly C-TICK)	Yes
KC approval	No
EAC (formerly Gost-R)	Yes
Suitable for safety functions	Yes
Marine approval	No
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
• cULus Class II Division 2	No
FM Class I Division 2	No
FM Class II Division 2	No
Marine approval	
Germanischer Lloyd (GL)	Yes
Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Free fall	
• Fall height, max.	1.2 m
Ambient temperature during operation	
min.	0 °C
	45 °C
max.	45.0
Ambient temperature during storage/transportation	-20 °C
• min.	
• max.	60 °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	
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 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	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
System event, more (SIMATIC S7, SINUMERIK,	Yes
SIMOTION,)	80
 Number of characters per message 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	
 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 Dermanant window/default	500
Permanent window/default Global image	Yes
Global imageImage 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	Yes
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	
— Sequential archive	Yes
— Short-term archive	Yes
Memory location	
— Memory card	Yes
— USB memory	Yes
— Ethernet	Yes
Data storage format	Vee
- CSV	Yes
— TXT — RDB	No 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
Electronic print to file	Yes; PDF, HTML
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	No
Process coupling	
• \$7-1200	Yes
• S7-1200	Yes
• S7-200	Yes
• S7-200 • S7-300/400	Yes
• LOGO!	Yes
WinAC	No
SINUMERIK	Yes
SINOMERIK SIMOTION	Yes
	Yes
Allen Bradley (EtherNet/IP)	No
Allen Bradley (DF1)	
Mitsubishi (MC TCP/IP) Mitsubishi (FX)	Yes
Mitsubishi (FX)	No
OMRON (FINS TCP)	Yes
OMRON (LINK/Multilink)	No
Modicon (Modbus TCP/IP)	Yes
Modicon (Modbus)	No
Service tools/configuration aids	N .
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 MM memory card: Multi Media Card	100
SIMATIC HMI MMI memory card: Nutlit Media Card SIMATIC HMI SD memory card: Secure Digital memory card	Yes
SIMATIC HMI SD memory card: Secure Digital memory	
SIMATIC HMI SD memory card: Secure Digital memory card	Yes
SIMATIC HMI SD memory card: Secure Digital memory card USB memory	Yes
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera	Yes Yes
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable	Yes Yes
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable Mechanics/material	Yes Yes
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable Mechanics/material Enclosure material (front)	Yes Yes Yes; SIMATIC options
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable Mechanics/material Enclosure material (front) • Plastic	Yes Yes Yes; SIMATIC options
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable Mechanics/material Enclosure material (front) • Plastic • Aluminum	Yes Yes Yes; SIMATIC options Yes No
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable Mechanics/material Enclosure material (front) • Plastic • Aluminum • Stainless steel	Yes Yes Yes; SIMATIC options Yes No
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable Mechanics/material Enclosure material (front) • Plastic • Aluminum • Stainless steel Dimensions	Yes Yes Yes; SIMATIC options Yes No No
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable Mechanics/material Enclosure material (front) • Plastic • Aluminum • Stainless steel Dimensions Width of the housing front	Yes Yes Yes; SIMATIC options Yes No No No
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable <u>Mechanics/material</u> Enclosure material (front) • Plastic • Aluminum • Stainless steel <u>Dimensions</u> Width of the housing front Height of housing front Weights	Yes Yes Yes; SIMATIC options Yes No No 248.4 mm 171.7 mm
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable Mechanics/material Enclosure material (front) • Plastic • Aluminum • Stainless steel Dimensions Width of the housing front Height of housing front Weights Weight (without packaging)	Yes Yes Yes; SIMATIC options Yes No No 248.4 mm 171.7 mm
SIMATIC HMI SD memory card: Secure Digital memory card USB memory Network camera Additional software components loadable <u>Mechanics/material</u> Enclosure material (front) • Plastic • Aluminum • Stainless steel <u>Dimensions</u> Width of the housing front Height of housing front Weights	Yes Yes Yes; SIMATIC options Yes No No 248.4 mm 171.7 mm