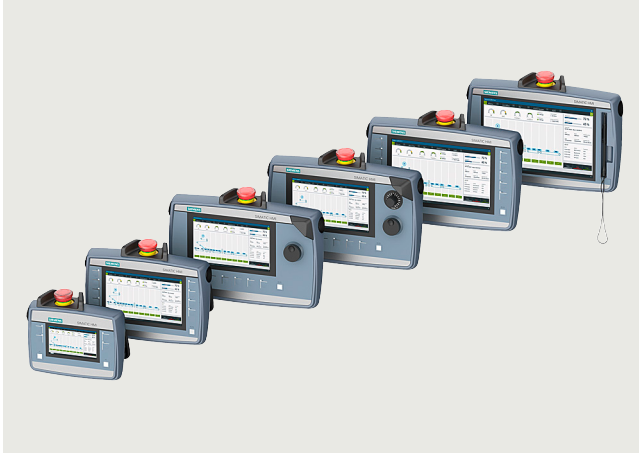


Operator panels

Advanced HMI Panel-based
Mobile Panels

Mobile Panels 2nd Generation

Overview



- SIMATIC HMI KTP700F Mobile HW
- SIMATIC HMI KTP700F Mobile HW/OR
- SIMATIC HMI TP1000F Mobile
- SIMATIC HMI KTP400F Mobile
- SIMATIC HMI KTP700 Mobile
- SIMATIC HMI KTP700F Mobile
- SIMATIC HMI KTP900 Mobile
- SIMATIC HMI KTP900F Mobile

Ordering data

Article No.

SIMATIC Mobile Panels 2nd Generation ¹⁾

SIMATIC HMI KTP700F Mobile HW
7.0" TFT display, 800 x 480 pixels,
16 million colors,
key and touch operation,
6 function keys,
2 illuminated pushbuttons,
1x PROFINET/Industrial Ethernet
interface, 1x Multimedia card,
1x USB, key-operated switch,
acknowledgment button,
emergency stop/stop button,
handwheel, configurable as from
WinCC Comfort V15

6AV2145-8GB00-0AA0

SIMATIC HMI KTP700F Mobile HW/OR

7.0" TFT display, 800 x 480 pixels,
16 million colors,
key and touch operation,
6 function keys,
2 illuminated pushbuttons,
1x PROFINET/Industrial Ethernet
interface, 1x Multimedia card,
1x USB, key-operated switch,
acknowledgment button,
emergency stop/stop button,
handwheel and override,
configurable as from
WinCC Comfort V15

6AV2145-8GB01-0AA0

SIMATIC HMI TP1000F Mobile

10.0" TFT display,
1 280 x 800 pixels,
16 million colors, touch operation,
touch pen,
1x PROFINET/Industrial Ethernet
interface, 1x Multimedia card,
1x USB, key-operated switch,
acknowledgment button,
emergency stop/stop pushbutton,
configurable as from
WinCC Comfort V14

6AV2145-6KB20-0AS0

KTP400F Mobile

6AV2125-2DB23-0AX0

KTP700 Mobile

6AV2125-2GB03-0AX0

KTP700F Mobile

6AV2125-2GB23-0AX0

KTP900 Mobile

6AV2125-2JB03-0AX0

KTP900F Mobile

6AV2125-2JB23-0AX0

Accessories

Connecting cable and accessories for Mobile Panels

See "SIMATIC HMI operator control and monitoring systems" -> "Accessories"

¹⁾ The system components (connecting cables and connection boxes) must be ordered separately.

Technical specifications

Article number	6AV2145-8GB00-0AA0 SIMATIC HMI KTP700F Mobile HW	6AV2145-8GB01-0AA0 SIMATIC HMI KTP700F Mobile HW/OR	6AV2145-6KB20-0AS0 SIMATIC HMI TP1000F MOBILE
General information			
Product type designation	KTP700F	KTP700F	TP1000F Mobile
Display			
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	7 in	7 in	10.1 in
Number of colors	16 777 216	16 777 216	16 777 216
Resolution (pixels)			
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel
Backlighting			
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h
Control elements			
Keyboard fonts			
• Function keys			
- Number of function keys	6	6	0
Touch operation			
• Design as touch screen	Yes	Yes	Yes
• Design as multi-touch screen	No	No	No
Special operator controls			
• Stop button (forced blocking)	Yes	Yes	Yes
• Emergency stop button (illuminated and forced blocking)	Yes	Yes	Yes
• Acknowledgement button (3-stage)	Yes	Yes	Yes
• Key-operated switch	Yes	Yes	Yes
• Illuminated pushbutton	Yes	Yes	Yes
• Handwheel	Yes	Yes	No
Camera			
• integrated camera	No	No	No
Expansions for operator control of the process			
• Direct keys (touch buttons as S7 input I/O)	32	32	0
Supply voltage			
Rated value (DC)	24 V	24 V	24 V
Memory			
Memory available for user data	12 Mbyte	12 Mbyte	12 Mbyte
Time of day			
Clock			
• Hardware clock (real-time)	Yes	Yes	Yes
Interfaces			
Number of industrial Ethernet interfaces	1	1	1
Number of PROFINET interfaces	1	1	1
Number of RS 485 interfaces	0	0	0
Number of USB interfaces	1; USB 2.0	1; USB 2.0	1; USB 2.0
Number of wireless interfaces	0	0	0
Number of SD card slots	1	1	1

Operator panels

Advanced HMI Panel-based
Mobile Panels

Mobile Panels 2nd Generation

Technical specifications

Article number	6AV2145-8GB00-0AA0 SIMATIC HMI KTP700F Mobile HW	6AV2145-8GB01-0AA0 SIMATIC HMI KTP700F Mobile HW/OR	6AV2145-6KB20-0AS0 SIMATIC HMI TP1000F MOBILE
Protocols			
PROFINET	Yes	Yes	Yes
PROFIsafe	Yes	Yes	Yes
PROFIBUS	No	No	No
EtherNet/IP	Yes	Yes	Yes
Protocols (Ethernet)			
• TCP/IP	Yes	Yes	Yes
• DHCP	Yes	Yes	Yes
• SNMP	Yes	Yes	Yes
• DCP	Yes	Yes	Yes
• LLDP	Yes	Yes	Yes
WEB characteristics			
• HTTP	Yes	Yes	Yes
• HTTPS	Yes	Yes	Yes
• HTML	Yes	Yes	Yes
• XML	No	No	No
• CSS	Yes	Yes	Yes
• Active X	No	No	No
• JavaScript	Yes	Yes	Yes
• Java VM	No	No	No
Further protocols			
• MODBUS	Yes	Yes	Yes
Communication functions			
Wireless communication			
• supported standards			
- Radio standard WLAN 802.11	No	No	No
- Bluetooth radio standard	No	No	No
Degree and class of protection			
IP65 (all-round)	Yes	Yes	Yes
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
UL approval	Yes	Yes	
cULus	Yes	Yes	Yes
FM approval	No	No	
RCM (formerly C-TICK)	Yes	Yes	Yes
KC approval	No	No	No
EAC (formerly Gost-R)	Yes	Yes	
Suitable for safety functions	Yes	Yes	Yes
Marine approval	No	No	No
Highest safety class achievable in safety mode			
• Performance level according to ISO 13849-1	PLe	PLe	PLe
• SIL acc. to IEC 61508	SIL 3	SIL 3	SIL 3
Use in hazardous areas			
• ATEX Zone 2	No	No	No
• ATEX Zone 22	No	No	No
• IECEx Zone 2	No	No	No
• IECEx Zone 22	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No
• cULus Class II Division 2	No	No	
• FM Class I Division 2	No	No	No
• FM Class II Division 2	No	No	

Technical specifications

Article number	6AV2145-8GB00-0AA0 SIMATIC HMI KTP700F Mobile HW	6AV2145-8GB01-0AA0 SIMATIC HMI KTP700F Mobile HW/OR	6AV2145-6KB20-0AS0 SIMATIC HMI TP1000F MOBILE
Ambient conditions			
Free fall			
• Fall height, max.	1.2 m	1.2 m	1.2 m
Ambient temperature during operation			
• min.	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C
Relative humidity			
• Operation, max.	90 %	90 %	90 %
Languages			
Online languages			
• Number of online/runtime languages	32	32	32
Functionality under WinCC (TIA Portal)			
Applications/options			
• Web browser	Yes	Yes	Yes
• Pocket Word	No	No	No
• Pocket Excel	No	No	No
• PDF Viewer	Yes	Yes	Yes
• Media Player	No	No	No
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes
Task planner			
• time-controlled	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes
Multiproject			
• Number of projects (internal)	0	0	0
• Number of projects (external)	0	0	0
Message system			
• Bit messages			
- Number of bit messages	4 000	4 000	4 000
• Analog messages			
- Number of analog messages	200	200	200
• Message buffer			
- Number of entries	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes
- retentive	Yes	Yes	Yes
Recipe management			
• Number of recipes	300	300	300
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte
• Recipe memory expandable	Yes	Yes	Yes
Variables			
• Number of variables per device	2 048	2 048	2 048
• Number of variables per screen	400	400	400
Images			
• Number of configurable images	500	500	500
Archiving			
• Number of archives per device	50	50	50
• Number of entries per archive	20 000	20 000	20 000

Operator panels

Advanced HMI Panel-based
Mobile Panels

Mobile Panels 2nd Generation

Technical specifications

Article number	6AV2145-8GB00-0AA0 SIMATIC HMI KTP700F Mobile HW	6AV2145-8GB01-0AA0 SIMATIC HMI KTP700F Mobile HW/OR	6AV2145-6KB20-0AS0 SIMATIC HMI TP1000F MOBILE
Security			
• Number of user groups	50	50	50
• Number of users	50	50	50
• SIMATIC Logon	Yes	Yes	Yes
Process coupling			
• S7-1200	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes
• WinAC	No	No	Yes; WinAC RTX
• SIMOTION	Yes	Yes	Yes
Peripherals/Options			
SIMATIC HMI MM memory card: Multi Media Card	Yes	Yes	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes
USB memory	Yes	Yes	Yes
Mechanics/material			
Enclosure material (front)			
• Plastic	Yes	Yes	Yes
• Aluminum	No	No	No
• Stainless steel	No	No	No
Dimensions			
Width of the housing front	248.4 mm	248.4 mm	307.5 mm
Height of housing front	171.7 mm	171.7 mm	223.5 mm
Weights			
Weight (without packaging)	1.3 kg	1.3 kg	1.6 kg

Technical specifications

Article number	6AV2125-2DB23-0AX0 SIMATIC HMI KTP400F Mobile	6AV2125-2GB03-0AX0 SIMATIC HMI KTP700 Mobile	6AV2125-2GB23-0AX0 SIMATIC HMI KTP700F Mobile	6AV2125-2JB03-0AX0 SIMATIC HMI KTP900 Mobile	6AV2125-2JB23-0AX0 SIMATIC HMI KTP900F Mobile
General information					
Product type designation	KTP400F Mobile	KTP700 Mobile	KTP700F Mobile	KTP900 Mobile	KTP900F Mobile
Display					
Design of display	TFT	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	4.3 in	7 in	7 in	9 in	9 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)					
• Horizontal image resolution	480 pixel	800 pixel	800 pixel	800 pixel	800 pixel
• Vertical image resolution	272 pixel	480 pixel	480 pixel	480 pixel	480 pixel
Backlighting					
• MTBF backlighting (at 25 °C)	50 000 h	50 000 h	50 000 h	50 000 h	50 000 h
Control elements					
Keyboard fonts					
• Function keys					
- Number of function keys	4	8	8	10	10
Touch operation					
• Design as touch screen	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	No	No	No	No	No
Special operator controls					
• Stop button (forced blocking)	Yes	No	Yes	No	Yes
• Emergency stop button (illuminated and forced blocking)	Yes	No	Yes	No	Yes
• Acknowledgement button (3-stage)	Yes	No	Yes	No	Yes
• Key-operated switch	No	No	Yes	No	Yes
• Illuminated pushbutton	Yes	Yes	Yes	Yes	Yes
Camera					
• integrated camera	No	No	No	No	No
Expansions for operator control of the process					
• Direct keys (touch buttons as S7 input I/O)	32	32	32	32	32
Supply voltage					
Rated value (DC)	24 V	24 V	24 V	24 V	24 V
Memory					
Memory available for user data	4 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte	12 Mbyte
Time of day					
Clock					
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes
Interfaces					
Number of industrial Ethernet interfaces	1	1	1	1	1
Number of PROFINET interfaces	1	1	1	1	1
Number of RS 485 interfaces	0	0	0	0	0
Number of USB interfaces	1; USB 2.0	1; USB 2.0	1; USB 2.0	1; USB 2.0	1; USB 2.0
Number of wireless interfaces	0	0	0	0	0
Number of SD card slots	0	1	1	1	1

Operator panels

Advanced HMI Panel-based Mobile Panels

Mobile Panels 2nd Generation

Technical specifications

Article number	6AV2125-2DB23-0AX0 SIMATIC HMI KTP400F Mobile	6AV2125-2GB03-0AX0 SIMATIC HMI KTP700 Mobile	6AV2125-2GB23-0AX0 SIMATIC HMI KTP700F Mobile	6AV2125-2JB03-0AX0 SIMATIC HMI KTP900 Mobile	6AV2125-2JB23-0AX0 SIMATIC HMI KTP900F Mobile
Protocols					
PROFINET	Yes	Yes	Yes	Yes	Yes
PROFIsafe	Yes	No	Yes	No	Yes
PROFIBUS	No	No	No	No	No
EtherNet/IP	Yes	Yes	Yes	Yes	Yes
Protocols (Ethernet)					
• TCP/IP	Yes	Yes	Yes	Yes	Yes
• DHCP	Yes	Yes	Yes	Yes	Yes
• SNMP	Yes	Yes	Yes	Yes	Yes
• DCP	Yes	Yes	Yes	Yes	Yes
• LLDP	Yes	Yes	Yes	Yes	Yes
WEB characteristics					
• HTTP	Yes	Yes	Yes	Yes	Yes
• HTTPS	Yes	Yes	Yes	Yes	Yes
• HTML	Yes	Yes	Yes	Yes	Yes
• XML	No	No	No	No	No
• CSS	Yes	Yes	Yes	Yes	Yes
• Active X	No	No	No	No	No
• JavaScript	Yes	Yes	Yes	Yes	Yes
• Java VM	No	No	No	No	No
Further protocols					
• MODBUS	Yes	Yes	Yes	Yes	Yes
Communication functions					
Wireless communication					
• supported standards					
- Radio standard WLAN 802.11	No	No	No	No	No
- Bluetooth radio standard	No	No	No	No	No
Degree and class of protection					
IP65 (all-round)	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates					
CE mark	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes
KC approval	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
Suitable for safety functions	Yes	No	Yes	No	Yes
Marine approval	Yes	Yes	Yes	Yes	Yes
Highest safety class achievable in safety mode					
• Performance level according to ISO 13849-1	PLe	none	PLe	none	PLe
• SIL acc. to IEC 61508	SIL 3	No	SIL 3	No	SIL 3
Use in hazardous areas					
• ATEX Zone 2	No	No	No	No	No
• ATEX Zone 22	No	No	No	No	No
• IECEx Zone 2	No	No	No	No	No
• IECEx Zone 22	No	No	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No	No	No
• FM Class I Division 2	No	No	No	No	No

Technical specifications

Article number	6AV2125-2DB23-0AX0 SIMATIC HMI KTP400F Mobile	6AV2125-2GB03-0AX0 SIMATIC HMI KTP700 Mobile	6AV2125-2GB23-0AX0 SIMATIC HMI KTP700F Mobile	6AV2125-2JB03-0AX0 SIMATIC HMI KTP900 Mobile	6AV2125-2JB23-0AX0 SIMATIC HMI KTP900F Mobile
Ambient conditions					
Free fall					
• Fall height, max.	1.2 m	1.2 m	1.2 m	1.2 m	1.2 m
Ambient temperature during operation					
• min.	0 °C	0 °C	0 °C	0 °C	0 °C
• max.	45 °C	45 °C	45 °C	45 °C	45 °C
Relative humidity					
• Operation, max.	90 %	90 %	90 %	90 %	90 %
Languages					
Online languages					
• Number of online/runtime languages	32	32	32	32	32
Functionality under WinCC (TIA Portal)					
Applications/options					
• Web browser	Yes	Yes	Yes	Yes	Yes
• Pocket Word	No	No	No	No	No
• Pocket Excel	No	No	No	No	No
• PDF Viewer	Yes	Yes	Yes	Yes	Yes
• Media Player	No	No	No	No	No
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	Yes	Yes	Yes	Yes	Yes
Task planner					
• time-controlled	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes
Multiproject					
• Number of projects (internal)	0	0	0	0	0
• Number of projects (external)	0	0	0	0	0
Message system					
• Bit messages					
- Number of bit messages	4 000	4 000	4 000	4 000	4 000
• Analog messages					
- Number of analog messages	200	200	200	200	200
• Message buffer					
- Number of entries	1 024	1 024	1 024	1 024	1 024
- Circulating buffer	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes
Recipe management					
• Number of recipes	300	300	300	300	300
• Size of internal recipe memory	2 Mbyte	2 Mbyte	2 Mbyte	2 Mbyte	2 Mbyte
• Recipe memory expandable	Yes	Yes	Yes	Yes	Yes
Variables					
• Number of variables per device	2 048	2 048	2 048	2 048	2 048
• Number of variables per screen	50	400	400	400	400
Images					
• Number of configurable images	500	500	500	500	500
Archiving					
• Number of archives per device	50	50	50	50	50
• Number of entries per archive	20 000	20 000	20 000	20 000	20 000

Operator panels

Advanced HMI Panel-based Mobile Panels

Mobile Panels 2nd Generation

Technical specifications

Article number	6AV2125-2DB23-0AX0 SIMATIC HMI KTP400F Mobile	6AV2125-2GB03-0AX0 SIMATIC HMI KTP700 Mobile	6AV2125-2GB23-0AX0 SIMATIC HMI KTP700F Mobile	6AV2125-2JB03-0AX0 SIMATIC HMI KTP900 Mobile	6AV2125-2JB23-0AX0 SIMATIC HMI KTP900F Mobile
Security					
• Number of user groups	50	50	50	50	50
• Number of users	50	50	50	50	50
• SIMATIC Logon	Yes	Yes	Yes	Yes	Yes
Process coupling					
• S7-1200	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes
• S7-200	Yes	Yes	Yes	Yes	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes
• LOGO!	Yes	Yes	Yes	Yes	Yes
• WinAC	Yes; WinAC RTX	Yes; WinAC RTX	Yes; WinAC RTX	Yes; WinAC RTX	Yes; WinAC RTX
• SIMOTION	Yes	Yes	Yes	Yes	Yes
Peripherals/Options					
SIMATIC HMI MM memory card: Multi Media Card	No	Yes	Yes	Yes	Yes
SIMATIC HMI SD memory card: Secure Digital memory card	No	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes
Mechanics/material					
Enclosure material (front)					
• Plastic	Yes	Yes	Yes	Yes	Yes
• Aluminum	No	No	No	No	No
• Stainless steel	No	No	No	No	No
Dimensions					
Width of the housing front	194 mm	248.4 mm	248.4 mm	307.5 mm	307.5 mm
Height of housing front	166 mm	171.7 mm	194.9 mm	200.9 mm	223.5 mm
Weights					
Weight (without packaging)	0.7 kg	1.2 kg	1.3 kg	1.5 kg	1.6 kg

More information

More information is available on the Internet at:

<http://www.siemens.com/mobile-panels>

Note:

Do you need a specific modification or extension to the products described here? Then look up "Customized products", where you will find information about additional and generally available sector-specific products, as well as options for customer-specific modifications and adaptations.