

Operator panels

Advanced HMI – Panel-based
Comfort Panels

Introduction

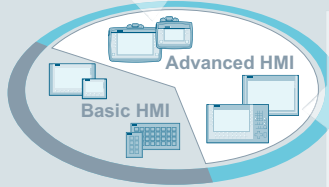
Overview

Advanced HMI

Mobile Panels

Maximum mobility and flexibility?

- Innovative operation of 4" ... 9" with and without cable
- Robust for site-related local operation
- Integrated safety concept



Comfort Panels

Highest demands in terms of performance and functionality?

- Brilliant widescreen displays from 4" ... 22"
- Innovative commissioning and service concept
- Energy management with PROFIenergy

G_ST80_XX_00743

SIMATIC HMI Comfort Panels

SIMATIC HMI Comfort Panels are designed for implementing high-performance visualization tasks at machine-level. High performance, functionality and numerous integrated interfaces offer the greatest convenience in high-end applications.

The following modules are available:

- Comfort Panels
 - Comfort Panels
 - Comfort Panels Outdoor
 - Comfort Panels PRO
 - Comfort Panels INOX

SIMATIC HMI Mobile Panels

Take power and safety directly in your hands. Choose Mobile Panels for high-end mobile applications, fail-safe machines and widely distributed plants. The process communication can be wired or via WLAN.

The following modules are available:

- Mobile Panels
 - Mobile Panels 2nd Generation

Realization of demanding, complex HMI tasks with a high level of user convenience

If you are looking for a panel-based solution for more demanding applications with larger quantity scales, make a decision for Advanced HMI.

The user benefits from excellent functionality and a wide range of devices and applications, with key or touch operation. Both stationary and mobile solutions are available.

Operator panels

Advanced HMI – Panel-based
Mobile Panels

Mobile Panels 2nd Generation

Overview



- SIMATIC HMI KTP400F Mobile
- SIMATIC HMI KTP700 Mobile
- SIMATIC HMI KTP700F Mobile
- SIMATIC HMI KTP900 Mobile
- SIMATIC HMI KTP900F Mobile

Mobile Panels 2nd Generation

Technical specifications

Article number	6AV2125-2DB23-0AX0	6AV2125-2GB03-0AX0	6AV2125-2GB23-0AX0	6AV2125-2JB03-0AX0	6AV2125-2JB23-0AX0
	SIMATIC HMI KTP400F MOBILE	SIMATIC HMI KTP700 MOBILE	SIMATIC HMI KTP700F MOBILE	SIMATIC HMI KTP900 MOBILE	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
• Backlight dimmable	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %	Yes; 0-100 %
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

Technical specifications (continued)

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
Expansions for operator control of the process					
• DP direct LEDs (LEDs as S7 output I/O) - F1...Fx	4	8	8	10	10
• Direct keys (keys as S7 input I/O) - F1...Fx	4	8	8	10	10
• Direct keys (touch buttons as S7 input I/O)	32	32	32	32	32
Supply voltage					
Type of supply voltage	DC	DC	DC	DC	DC
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
Type of output					
Power LED	No	No	No	No	No
LED for safe	No	No	No	No	No
LED for communication	No	No	No	No	No
LED for battery	No	No	No	No	No
Vibrations	No	No	No	No	No
Time of day					
Clock					
• Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes
• retentive	Yes	Yes	Yes	Yes	Yes
• synchronizable	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 RS 422 interfaces	0	0	0	0	0
Number of RS 232 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
Protocols					
PROFINET	Yes	Yes	Yes	Yes	Yes
PROFIsafe	Yes	No	Yes	No	Yes
PROFIBUS	No	No	No	No	No
MPI	No	No	No	No	No
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					
• EtherNet/IP	Yes	Yes	Yes	Yes	Yes
• MODBUS	Yes	Yes	Yes	Yes	Yes
• other bus systems	No	No	No	No	No

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Mobile Panels 2nd Generation

Technical specifications (continued)

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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
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 %
Configuration					
Message indicator	Yes	Yes	Yes	Yes	Yes
Alarm system (incl. buffer and acknowledgment)	Yes	Yes	Yes	Yes	Yes
Process value display (output)	Yes	Yes	Yes	Yes	Yes
Process value default (input) possible	Yes	Yes	Yes	Yes	Yes
Recipe management	Yes	Yes	Yes	Yes	Yes
Configuration software					
• STEP 7 Basic (TIA Portal)	No	No	No	No	No
• STEP 7 Professional (TIA Portal)	No	No	No	No	No
• WinCC flexible Compact	No	No	No	No	No
• WinCC flexible Standard	No	No	No	No	No
• WinCC flexible Advanced	No	No	No	No	No
• WinCC Basic (TIA Portal)	No	No	No	No	No
• WinCC Comfort (TIA Portal)	Yes	Yes	Yes	Yes	Yes
• WinCC Advanced (TIA Portal)	Yes	Yes	Yes	Yes	Yes
• WinCC Professional (TIA Portal)	Yes	Yes	Yes	Yes	Yes
Languages					
Online languages					
• Number of online/runtime languages	32	32	32	32	32

Technical specifications (continued)

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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
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

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Peripherals/Options					
Peripherals					
• Printer	Yes	Yes	Yes	Yes	Yes
• 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
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

Ordering data

Article No.

Article No.

SIMATIC Mobile Panels for 2nd Generation ¹⁾

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

Starter kit Mobile Panel

Consisting of:
1x KTP700F Mobile,
1x connection box standard,
1x connecting cable 2 m,
1x wall bracket,
1x WinCC Comfort (TIA Portal)

6AV2133-5GA00-0AA0

Accessories

Connecting cable and accessories for Mobile Panels

See chapter 6

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

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.