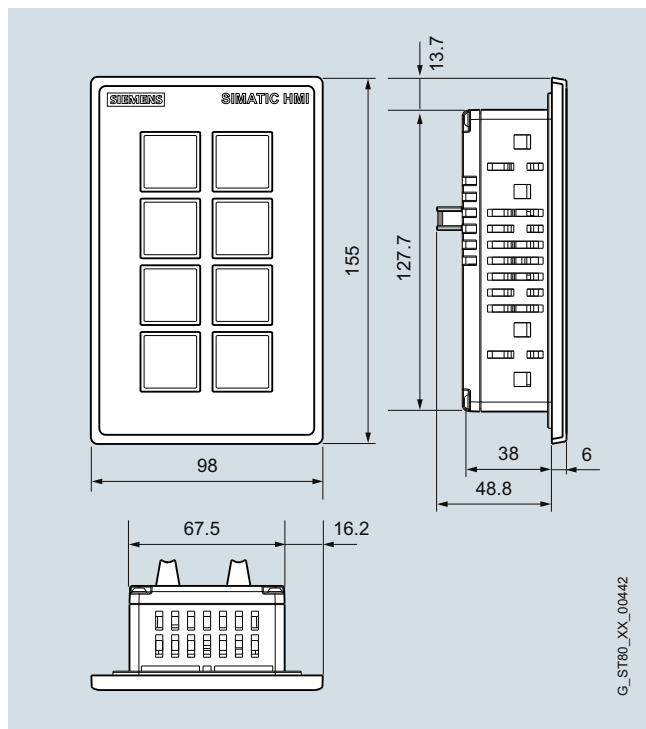
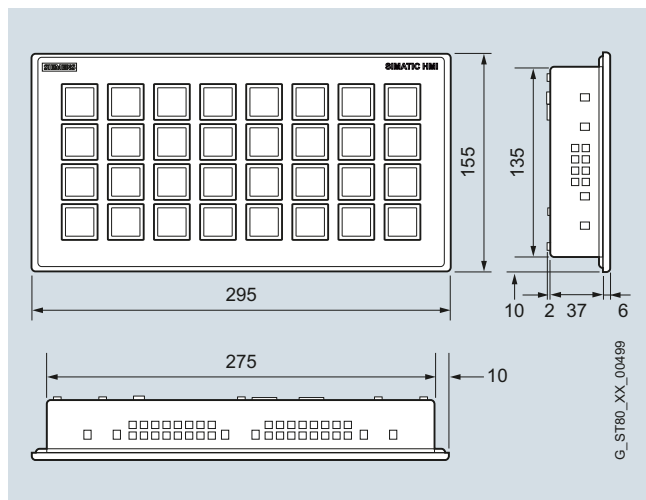


Dimensional drawings

All dimensions in mm. For installation cutout, see technical specifications.



SIMATIC HMI Key Panel KP8; installation dimensions also valid for empty front design



SIMATIC HMI Key Panel KP32F

More information

Additional information is available on the Internet at:

<http://www.siemens.com/simatic-key-panels>

For accessories, please refer to SIMATIC HMI accessories.

Note:

Do you need a specific modification or extension to the products described here? If so, refer to "Customized Automation". There you will find information about additional and generally available sector-specific products as well as options for customer-specific modification and adaptation.

Operator panels

SIMATIC HMI Basic Panels

SIMATIC HMI Basic Panels (2nd Generation)

Overview



SIMATIC HMI Basic Panels, 2nd generation

With their fully developed HMI basic functions, 2nd generation SIMATIC HMI Basic Panels are the ideal entry level series for simple HMI applications.

The device family offers panels with 4", 7", 9" and 12" widescreen displays, as well as combined key and touch operation.

The innovative high-resolution widescreen displays with 64 000 colors are also suitable for upright installation, and they can be dimmed down to 100 %.

The innovative operator interface with improved usability opens up a diverse range of options thanks to new controls and graphics. The new USB interface enables the connection of keyboard, mouse or barcode scanner, and supports the simple archiving of data on a USB stick.

The integrated Ethernet or RS 485/422 interface (version-specific) enables simple connection to the controller.

Technical specifications

Article number	6AV2123-2DB03-0AX0 SIMATIC HMI KTP400 BASIC	6AV2123-2GB03-0AX0 SIMATIC HMI KTP700 BASIC	6AV2123-2GA03-0AX0 SIMATIC HMI KTP700 BASIC DP
Product type designation			
Display			
Design of display	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting	TFT widescreen display, LED backlighting
Screen diagonal	4.3 in	7 in	7 in
Number of colors	65 536	65 536	65 536
Resolution (pixels)			
• Horizontal image resolution	480 Pixel	800 Pixel	800 Pixel
• Vertical image resolution	272 Pixel	480 Pixel	480 Pixel
Backlighting			
• MTBF backlighting (at 25 °C)	20 000 h	20 000 h	20 000 h
• Backlight dimmable	Yes	Yes	Yes
Control elements			
Keyboard			
• Function keys			
- Number of function keys	4	8	8
Touch operation			
• Design as touch screen	Yes	Yes	Yes
Installation type/mounting			
Mounting in portrait format possible	Yes	Yes	Yes
Supply voltage			
Type of supply voltage	DC	DC	24 V DC
Rated value (DC)	24 V	24 V	24 V
Memory			
usable memory for user data	10 Mbyte	10 Mbyte	10 Mbyte
Type of output			
Acoustics			
• Buzzer	Yes	Yes	Yes
Time of day			
Clock			
• Software clock	Yes	Yes	Yes
• battery-backed	Yes	Yes	Yes
• synchronizable	Yes	Yes	Yes

Technical specifications (continued)

Article number	6AV2123-2DB03-0AX0 SIMATIC HMI KTP400 BASIC	6AV2123-2GB03-0AX0 SIMATIC HMI KTP700 BASIC	6AV2123-2GA03-0AX0 SIMATIC HMI KTP700 BASIC DP
Interfaces			
Number of RS 485 interfaces	0	0	1
Number of USB interfaces	1; Up to 16 GB	1; Up to 16 GB	1; Up to 16 GB
Number of SD card slots	0	0	0
Industrial Ethernet			
• Number of industrial Ethernet interfaces	1	1	0
Protocols			
PROFINET	Yes	Yes	No
IRT	No	No	No
MRP	No	No	No
PROFIBUS	No	No	Yes
MPI	No	No	Yes
Degree and class of protection			
IP (at the front)	65	65	65
Enclosure Type 4x at the front	Yes	Yes	Yes
IP (rear)	20	20	20
Standards, approvals, certificates			
CE mark	Yes	Yes	Yes
cULus	Yes	Yes	Yes
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
• FM Class I Division 2	No	No	No
Ambient conditions			
Ambient temperature during operation			
• Operation (vertical installation)			
- For vertical installation, min.	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C
Relative humidity			
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration			
Configuration software			
• STEP 7 Basic (TIA Portal)	Yes; via integrated WinCC Basic (TIA Portal)	Yes; via integrated WinCC Basic (TIA Portal)	Yes; via integrated WinCC Basic (TIA Portal)
• WinCC flexible Compact	No	No	No
• WinCC Basic (TIA Portal)	Yes	Yes	Yes
Languages			
Online languages			
• Number of online/runtime languages	10	10	10

Operator panels

SIMATIC HMI Basic Panels

SIMATIC HMI Basic Panels (2nd Generation)

Technical specifications (continued)

Article number	6AV2123-2DB03-0AX0 SIMATIC HMI KTP400 BASIC	6AV2123-2GB03-0AX0 SIMATIC HMI KTP700 BASIC	6AV2123-2GA03-0AX0 SIMATIC HMI KTP700 BASIC DP
Functionality under WinCC (TIA Portal)			
Applications/options			
• Web browser	Yes	Yes	Yes
Number of Visual Basic Scripts	No	No	No
Task planner	Yes	Yes	Yes
• time-controlled	No	No	No
• task-controlled	Yes	Yes	Yes
Message system			
• Bit messages			
- Number of bit messages	1 000	1 000	1 000
• Analog messages			
- Number of analog messages	25	25	25
• S7 alarm number procedure	No	No	No
• System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.)	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
• Message buffer			
- Number of entries	256	256	256
- Circulating buffer	Yes	Yes	Yes
- retentive	Yes	Yes	Yes
Recipe administration			
• Number of recipes	50	50	50
• Size of internal recipe memory	256 kbyte	256 kbyte	256 kbyte
• Recipe memory expandable	No	No	No
Variables			
• Number of variables per device	800	800	800
• Number of variables per screen	100	100	100
Images			
• Number of configurable images	250	250	100
Archiving			
• Number of archives per device	2	2	2
• Number of entries per archive	10 000	10 000	10 000
• Message archive	Yes	Yes	Yes
• Process value archive	Yes	Yes	Yes
• Archiving methods			
- Sequential archive	Yes	Yes	Yes
- Short-term archive	Yes	Yes	Yes
• Memory location			
- Memory card	No	No	No
- USB memory	Yes	Yes	Yes
- Ethernet	No	No	No
• Data storage format			
- CSV	No	No	No
- TXT	Yes	Yes	Yes
- RDB	No	No	No
Security			
• Number of user groups	50	50	50
• Number of users	50	50	50
Transfer (upload/download)			
• MPI/PROFIBUS DP	No	No	Yes
• Ethernet	Yes	Yes	No

Technical specifications (continued)

Article number	6AV2123-2DB03-0AX0 SIMATIC HMI KTP400 BASIC	6AV2123-2GB03-0AX0 SIMATIC HMI KTP700 BASIC	6AV2123-2GA03-0AX0 SIMATIC HMI KTP700 BASIC DP
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	Yes	Yes	Yes
• SIMOTION	Yes	Yes	Yes
• Allen Bradley (EtherNet/IP)	Yes	Yes	No
• Allen Bradley (DF1)	No	No	Yes
• Mitsubishi (MC TCP/IP)	Yes	Yes	No
• Mitsubishi (FX)	No	No	Yes
• OMRON (FINS TCP)	No	No	No
• OMRON (LINK/Multilink)	No	No	Yes
• Modicon (Modbus TCP/IP)	Yes	Yes	No
• Modicon (Modbus)	No	No	Yes
Peripherals/Options			
Peripherals			
• Printer	No	No	No
• MultiMediaCard	No	No	No
• SD card	No	No	No
• USB memory	Yes	Yes	Yes
Mechanics/material			
Type of housing (front)			
• plastic	Yes	Yes	Yes
Dimensions			
Width of the housing front	141 mm	214 mm	214 mm
Height of housing front	116 mm	158 mm	158 mm
Mounting cutout, width	123 mm	197 mm	197 mm
Mounting cutout, height	99 mm	141 mm	141 mm
Overall depth	33 mm	39 mm	39 mm
Weights			
Without packaging	360 g	780 g	800 g