

Operator panels

SIMATIC HMI Basic Panels

SIMATIC HMI Basic Panels (2nd Generation)

Technical specifications (continued)

Article number	6AV2123-2JB03-0AX0 SIMATIC HMI KTP900 BASIC	6AV2123-2MB03-0AX0 SIMATIC HMI KTP1200 BASIC	6AV2123-2MA03-0AX0 SIMATIC HMI KTP1200 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	9 in	12 in	12 in
Number of colors	65 536	65 536	65 536
Resolution (pixels)			
• Horizontal image resolution	800 Pixel	1 280 Pixel	1 280 Pixel
• Vertical image resolution	480 Pixel	800 Pixel	800 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	8	10	10
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	24 V DC	24 V DC
Rated value (DC)	24 V	24 V	24 V
Memory			
usable memory for user data	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
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

Technical specifications (continued)

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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
Functionality under WinCC (TIA Portal)			
Applications/options			
• Web browser	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	100	100

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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	Yes	Yes
- TXT	Yes	No	No
- 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
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	267 mm	330 mm	330 mm
Height of housing front	182 mm	245 mm	245 mm
Mounting cutout, width	251 mm	310 mm	310 mm
Mounting cutout, height	166 mm	221 mm	221 mm
Overall depth	55 mm	60 mm	60 mm
Weights			
Without packaging	1 130 g	1 710 g	1 710 g

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Ordering data

Article No.

SIMATIC HMI Basic Panels, Key and Touch

SIMATIC HMI KTP400 Basic

6AV2123-2DB03-0AX0

Key/touch-screen operation; 4" TFT widescreen display, 65 536 colors, PROFINET interface

SIMATIC HMI KTP700 Basic

6AV2123-2GB03-0AX0

Key/touch-screen operation; 7" TFT display, 65 536 colors, PROFINET interface

SIMATIC HMI KTP700 Basic DP

6AV2123-2GA03-0AX0

Key/touch-screen operation; 7" TFT display, 65 536 colors, PROFIBUS interface

SIMATIC HMI KTP900 Basic

6AV2123-2JB03-0AX0

Key/touch-screen operation; 9" TFT display, 65 536 colors, PROFINET interface

SIMATIC HMI KTP1200 Basic

6AV2123-2MB03-0AX0

Key/touch-screen operation; 12" TFT display, 65 536 colors, PROFINET interface

SIMATIC HMI KTP1200 Basic DP

6AV2123-2MA03-0AX0

Key/touch-screen operation; 12" TFT display, 65 536 colors, PROFIBUS interface

Starter kits

Starter kit SIMATIC S7-1200 + KP300 Basic mono PN

6AV6651-7HA01-3AA4

Starter Kit SIMATIC S7-1200 + KTP400 Basic

6AV6651-7KA01-3AA4

Starter Kit SIMATIC S7-1200 + KTP700 Basic

6AV6651-7DA01-3AA4

Starter kits with an S7-1200 consist of:

- the respective SIMATIC HMI Basic Panel
- SIMATIC HMI KP300 Basic mono PN
- SIMATIC HMI KTP400 Basic
- SIMATIC HMI KTP700 Basic
- SIMATIC S7-1200 CPU 1212C AC/DC/Rly
- SIMATIC S7-1200 Simulator Module SIM 12
- SIMATIC STEP 7 BASIC CD
- SIMATIC S7-1200 HMI Manual Collection CD
- Ethernet CAT5 cable, 2 m

Starter kit LOGO! + KP300 Basic mono PN

6AV2132-0HA00-0AA1

Starter kit LOGO! + KTP400 Basic

6AV2132-0KA00-0AA1

Starter kit LOGO! + KTP700 Basic

6AV2132-3GB00-0AA1

Starter kits with a LOGO! consist of:

- the respective SIMATIC HMI Basic Panel
- SIMATIC HMI KP300 Basic mono PN
- SIMATIC HMI KTP400 Basic
- SIMATIC HMI KTP700 Basic
- LOGO! 12/24 RCE
- LOGO! POWER 24 V 1.3 A
- LOGO! SOFT COMFORT V7
- WINCC BASIC (TIA Portal)
- Ethernet CAT5 cable, 2 m

Documentation

You can find the manual for the Basic Panels on the Internet at:

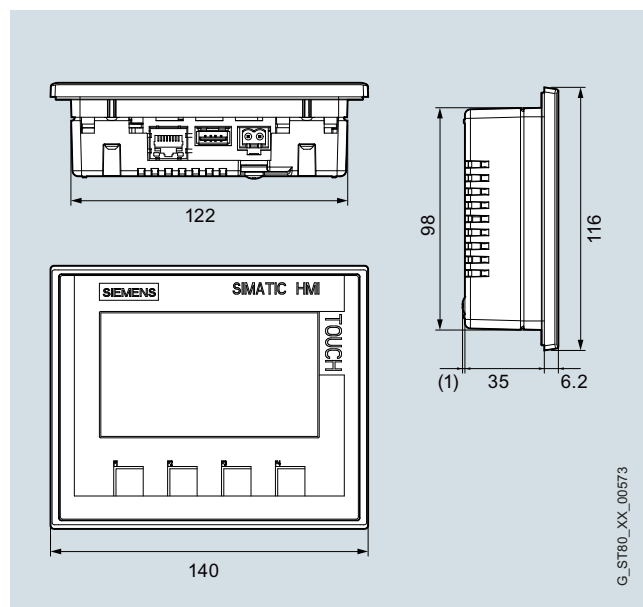
<http://support.automation.siemens.com>

Accessories

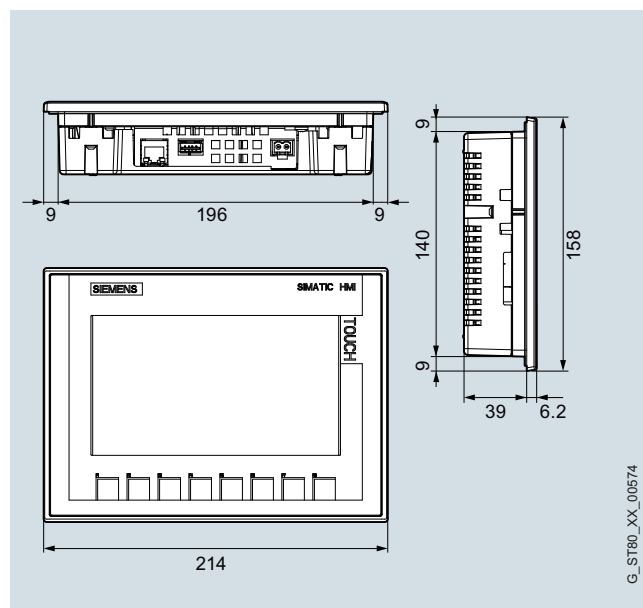
See SIMATIC HMI accessories, chapter 7

Dimensional drawings

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



KTP400 Basic, Basic Panel 2nd generation



KTP700 Basic, Basic Panel 2nd Generation