

Operator panels

Basic HMI

SIMATIC HMI Unified Basic Panels

Overview



SIMATIC HMI Unified Basic Panels

SIMATIC HMI Unified Basic Panels consist of four different devices with varying display sizes. All devices come with the same number of hardware interfaces and the same functionality – just select the perfect device for your needs based on the screen size.

Each Unified Basic Panel is available in the standard design with Siemens and SIMATIC HMI branding.

SIMATIC WinCC Unified contains visualization, communication, alarms/warnings, administration of parameter sets, archiving of user administration.

Furthermore, a WinCC Unified Client Operate for remote operator control and monitoring is included.

Client access is based on native web technologies such as HTML5, SVG and JavaScript. The visualization can be accessed via any modern web browser – without the need for additional installation.

Ordering data

Article No.

SIMATIC HMI MTP400, Unified Basic Panel

Touch operation,
4" widescreen TFT display,
16 million colors,
PROFINET interface,
configurable as of
WinCC Unified Basic V18 Upd. 3,
contains open source SW which is
provided free of charge
See enclosed Blu-Ray

6AV2123-3DB32-0AW0

SIMATIC HMI MTP700, Unified Basic Panel

Touch operation,
7" widescreen TFT display,
16 million colors,
PROFINET interface,
configurable as of
WinCC Unified Basic V18 Upd. 3,
contains open source SW which is
provided free of charge
See enclosed Blu-Ray

6AV2123-3GB32-0AW0

SIMATIC HMI MTP1000, Unified Basic Panel

Touch operation,
10" widescreen TFT display,
16 million colors,
PROFINET interface,
configurable as of
WinCC Unified Basic V18 Upd. 3,
contains open source SW which is
provided free of charge
See enclosed Blu-Ray

6AV2123-3KB32-0AW0

SIMATIC HMI MTP1200, Unified Basic Panel

Touch operation,
12" widescreen TFT display,
16 million colors,
PROFINET interface,
configurable as of
WinCC Unified Basic V18 Upd. 3,
contains open source SW which is
provided free of charge
See enclosed Blu-Ray

6AV2123-3MB32-0AW0

Technical specifications

Article number	6AV2123-3DB32-0AW0 SIMATIC HMI MTP400 Unified Basic	6AV2123-3GB32-0AW0 SIMATIC HMI MTP700 Unified Basic	6AV2123-3KB32-0AW0 SIMATIC HMI MTP1000 Unified Basic	6AV2123-3MB32-0AW0 SIMATIC HMI MTP1200 Unified Basic
General information				
Product type designation	MTP400 Unified Basic	MTP700 Unified Basic	MTP1000 Unified Basic	MTP1200 Unified Basic
Display				
Design of display	TFT	TFT	TFT	TFT
Screen diagonal	4.3 in	7 in	10.1 in	12.1 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)				
• Horizontal image resolution	800 pixel	800 pixel	1 280 pixel	1 280 pixel
• Vertical image resolution	480 pixel	480 pixel	800 pixel	800 pixel
Backlighting				
• MTBF backlighting (at 25 °C)	20 000 h; At 25°C	20 000 h; At 25°C	20 000 h; At 25°C	20 000 h; At 25°C
Control elements				
Touch operation				
• Design as touch screen	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes
• Monitor keyboard	Yes	Yes	Yes	Yes
Installation type/mounting				
Mounting in portrait format possible	Yes	Yes	Yes	Yes
Supply voltage				
Rated value (DC)	24 V	24 V	24 V	24 V
Time of day				
Clock				
• Software clock	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes
Interfaces				
Number of industrial Ethernet interfaces	1; Gigabit Ethernet (IE/PN), RJ45	1; Gigabit Ethernet (IE/PN), RJ45	1; Gigabit Ethernet (IE/PN), RJ45	1; Gigabit Ethernet (IE/PN), RJ45
Number of RS 485 interfaces	0	0	0	0
Number of USB interfaces	2; USB 2.0	2; USB 2.0	2; USB 2.0	2; USB 2.0
Number of SD card slots	0	0	0	0
Industrial Ethernet				
• Number of ports of the integrated switch	1	1	1	1
Protocols				
PROFINET	Yes	Yes	Yes	Yes
IRT	No	No	No	No
MPI	No	No	No	No
Redundancy mode				
Media redundancy				
- MRP	No	No	No	No
Degree and class of protection				
IP (at the front)	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20
NEMA (front)	NEMA 4, NEMA 4x (when installed)	NEMA 4, NEMA 4x (when installed)	NEMA 4, NEMA 4x (when installed)	NEMA 4, NEMA 4x (when installed)
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	No	No	No	No

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Standards, approvals, certificates				
CE mark	Yes	Yes	Yes	Yes
UKCA mark	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes
FM approval	No	No	No	No
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	No	No	No	No
CCC	No	No	No	No
Use in hazardous areas				
• ATEX Zone 2	No	No	No	No
• ATEX Zone 22	No	No	No	No
• IECEx Zone 2	No	No	No	No
• IECEx Zone 22	No	No	No	No
• cULus Class I Zone 2, Division 2	No	No	No	No
• cULus Class II Division 2	No	No	No	No
• FM Class I Division 2	No	No	No	No
• FM Class II Division 2	No	No	No	No
Marine approval				
• Germanischer Lloyd (GL)	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• American Bureau of Shipping (ABS)	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• Bureau Veritas (BV)	Yes; Available soon	Yes; Available soon	Yes; Available soon	Yes; Available soon
• Det Norske Veritas (DNV)	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• Korean Register of Shipping (KRS)	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• Lloyds Register of Shipping (LRS)	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• Nippon Kaiji Kyokai (Class NK)	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• Chinese Classification Society (CCS)	No; Available soon	No; Available soon	No; Available soon	No; Available soon
Ambient conditions				
Suited for indoor use	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No
Ambient temperature during operation				
Operation (vertical installation)				
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C
Relative humidity				
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
configuration / header				
Configuration software				
• WinCC Unified Basic Engineering (TIA Portal)	Yes	Yes	Yes	Yes
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes
Languages				
Online languages				
• Number of online/runtime languages	32	32	32	32
Functionality under WinCC Unified				
Applications/options	No	No	No	No
Number of Visual Basic Scripts	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes
functionality under WinCC Unified / alarm system / header				
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes

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Parameter set management (recipes)				
• Number of parameter set types	250	250	250	250
• Size of internal parameter set memory	5 Mbyte	5 Mbyte	5 Mbyte	5 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes
functionality under WinCC Unified / variables / header				
• Number of variables per device	1 000	1 000	1 000	1 000
• Number of variables per screen	300	300	300	300
functionality under WinCC Unified / screens / header				
• Number of configurable images	300	300	300	300
functionality under WinCC Unified / archiving / header				
• Number of archives per device	10	10	10	10
Security				
• Number of roles	50	50	50	50
• Number of users	200	200	200	200
• Central user administration	Yes	Yes	Yes	Yes
functionality under WinCC Unified / transfer (upload/download) / header				
• Ethernet	Yes	Yes	Yes	Yes
Process coupling				
• S7-1200	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No
• S7-300/400	Yes	Yes	Yes	Yes
• Number of S7 connections	8	8	8	8
• LOGO!	Yes; over Modbus	Yes; over Modbus	Yes; over Modbus	Yes; over Modbus
• SIMOTION	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes
• OPC UA Server	No	No	No	No
• Software Controller/Open Controller	No	No	No	No
Peripherals/Options				
Peripherals	card reader, barcode reader	card reader, barcode reader	card reader, barcode reader	card reader, barcode reader
Printer	No	No	No	No
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	No	No	No	No
USB memory	Yes	Yes	Yes	Yes
Network camera	No	No	No	No
Dimensions				
Width of the housing front	140 mm	214 mm	280 mm	326 mm
Height of housing front	116 mm	158 mm	205 mm	237 mm
Mounting cutout, width	123 mm	197 mm	264 mm	310 mm
Mounting cutout, height	99 mm	141 mm	189 mm	221 mm
Overall depth	36 mm	36 mm	55 mm	55 mm
Weights				
Weight (without packaging)	0.45 kg	0.85 kg	1.55 kg	2.08 kg