

Operator panels

Advanced HMI Panel-based

SIMATIC HMI Unified Comfort Panels

Overview



SIMATIC HMI Unified Comfort Panels

The new generation of high-end, 7–22-inch operator panels, part of the new SIMATIC WinCC Unified System, boasts numerous improvements over the predecessor devices in terms of performance, openness and user-friendliness.

Thanks to their capacitive glass front with multi-touch technology, the Unified Comfort Panels are as convenient to use as a smartphone or tablet. The sharp colors and high contrast improve the readability and ease of use.

Visualization on the devices is based on SIMATIC WinCC Unified, the new visualization system in the TIA Portal. This opens up many new opportunities and functionalities for the user – across all device sizes.

Brand new to the SIMATIC HMI product portfolio is the option to expand device functionality with apps. Previously, HMI Panels were used exclusively for visualization software. Thanks to the integration of Siemens Industrial Edge, users can now run other programs simultaneously alongside this standard device functionality. Project-specific requirements can thus be implemented quickly and easily.

The following SIMATIC HMI Unified Comfort Panels are available:

- Standard design:
 - MTP700 Comfort
 - MTP1000 Comfort
 - MTP1200 Comfort
 - MTP1500 Comfort
 - MTP1900 Comfort
 - MTP2200 Comfort
- Neutral design:
 - MTP700 Comfort
 - MTP1000 Comfort
 - MTP1200 Comfort
 - MTP1500 Comfort
 - MTP1900 Comfort
 - MTP2200 Comfort

Starter Kits are available for standard design devices.

These consist of:

- HMI Unified Comfort Panel
- WinCC Unified V16 Comfort
- EDGE Runtime for Unified Comfort (Device-managed) license
- 1.5 m PROFINET cable
- Memory card (32 GB)
- Protective film

SIMATIC WinCC Unified options

- WinCC Unified Audit Basis
- WinCC Unified Clients (Operate Client and Monitor Client)
- WinCC Unified Database Storage
- WinCC Unified Logging
- WinCC Unified Parameter Control
- WinCC Unified Report Execution
- WinCC Unified Collaboration

Overview



SIMATIC HMI MTP2200 Unified Comfort Panel Standard design front view

SIMATIC HMI Unified Comfort Panels - standard devices

SIMATIC HMI Unified Comfort Panels consist of six 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 Comfort Panel is available in the standard design with Siemens and SIMATIC HMI branding and a silver-colored aluminum frame.

All Unified Comfort Panels come with integrated Edge functionality.

SIMATIC WinCC Unified contains visualization, communication, alarms/warnings, report creation, administration of parameter sets, archiving of user administration. Furthermore, a WinCC Unified Client Operate (V17 or higher) for remote operator control and monitoring, and a WinCC Unified Client Monitor (V18 or higher) for monitoring only are also included. Additional clients can be enabled with a license. Up to three client licenses can be used.

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.

Siemens Industrial Edge can be used in two different ways:

- Device-managed Edge
- Centrally-managed Edge (planned)

SIMATIC HMI Unified Comfort Panels can also be ordered with a neutral design.

Note:

The technical specifications of the neutral design devices correspond to the technical specifications of the devices with standard design.

Ordering data

Article No.

Touch devices for SIMATIC HMI Unified Comfort Panels

Standard design

SIMATIC HMI MTP700 Unified Comfort Panel

7" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD

6AV2128-3GB06-0AX1

SIMATIC HMI MTP1000 Unified Comfort Panel

10.1" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD

6AV2128-3KB06-0AX1

SIMATIC HMI MTP1200 Unified Comfort Panel

12.1" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD

6AV2128-3MB06-0AX1

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SIMATIC HMI Unified Comfort Panels Standard

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Ordering data

Article No.

SIMATIC HMI MTP1500 Unified Comfort Panel

15.6" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD

6AV2128-3QB06-0AX1

SIMATIC HMI MTP1900 Unified Comfort Panel

18.5" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD

6AV2128-3UB06-0AX1

SIMATIC HMI MTP2200 Unified Comfort Panel

21.5" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD

6AV2128-3XB06-0AX1

Article No.

Neutral design

SIMATIC HMI MTP700 Unified Comfort Panel

Neutral, touch operation; 7" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD

6AV2128-3GB36-0AX1

SIMATIC HMI MTP1000 Unified Comfort Panel

Neutral, touch operation; 10.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD

6AV2128-3KB36-0AX1

SIMATIC HMI MTP1200 Unified Comfort Panel

Neutral, touch operation; 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD

6AV2128-3MB36-0AX1

SIMATIC HMI MTP1500 Unified Comfort Panel

Neutral, touch operation; 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16;

- with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD

6AV2128-3QB36-0AX1

Operator panels

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SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Standard

Ordering data	Article No.	Article No.
SIMATIC HMI MTP1900 Unified Comfort Panel Neutral, touch operation; 18.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	6AV2128-3UB36-0AX1	Software EDGE Runtime for SIMATIC Unified Comfort Runtime software, single license, license key for download, without software and documentation, Class A, email address required for delivery
SIMATIC HMI MTP2200 Unified Comfort Panel Neutral, touch operation; 21.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	6AV2128-3XB36-0AX1	6AV2170-2BA00-0AA0

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Advanced HMI Panel-based SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Standard

Technical specifications

Article number	6AV2128-3GB06-0AX1	6AV2128-3KB06-0AX1	6AV2128-3MB06-0AX1	6AV2128-3QB06-0AX1	6AV2128-3UB06-0AX1	6AV2128-3XB06-0AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
General information						
Product type designation	MTP700 Unified Comfort	MTP1000 Unified Comfort	MTP1200 Unified Comfort	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	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	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes

Technical specifications

Article number	6AV2128-3GB06-0AX1 SIMATIC HMI MTP700 Unified Comfort	6AV2128-3KB06-0AX1 SIMATIC HMI MTP1000 Unified Comfort	6AV2128-3MB06-0AX1 SIMATIC HMI MTP1200 Unified Comfort	6AV2128-3QB06-0AX1 SIMATIC HMI MTP1500 Unified Comfort	6AV2128-3UB06-0AX1 SIMATIC HMI MTP1900 Unified Comfort	6AV2128-3XB06-0AX1 SIMATIC HMI MTP2200 Unified Comfort
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	No	No	No	No	No	No
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No; Available soon					
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No; included in DNV					
• American Bureau of Shipping (ABS)	Yes	Yes	Yes	Yes	Yes	Yes
• Bureau Veritas (BV)	Yes	Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes	Yes	Yes	Yes
• Chinese Classification Society (CCS)	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation					
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32

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SIMATIC HMI Unified Comfort Panels Standard

Technical specifications

Article number	6AV2128-3GB06-0AX1 SIMATIC HMI MTP700 Unified Comfort	6AV2128-3KB06-0AX1 SIMATIC HMI MTP1000 Unified Comfort	6AV2128-3MB06-0AX1 SIMATIC HMI MTP1200 Unified Comfort	6AV2128-3QB06-0AX1 SIMATIC HMI MTP1500 Unified Comfort	6AV2128-3UB06-0AX1 SIMATIC HMI MTP1900 Unified Comfort	6AV2128-3XB06-0AX1 SIMATIC HMI MTP2200 Unified Comfort
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes					
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes					
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No					
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Alarm system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	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	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte			12 Mbyte		
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Screens						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	No
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes

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Article number	6AV2128-3GB06-0AX1	6AV2128-3KB06-0AX1	6AV2128-3MB06-0AX1	6AV2128-3QB06-0AX1	6AV2128-3UB06-0AX1	6AV2128-3XB06-0AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	214 mm	280 mm	326 mm	398 mm	464 mm	529 mm
Height of housing front	158 mm	205 mm	237 mm	257 mm	294 mm	331 mm
Mounting cutout, width	197 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	141 mm	189 mm	221 mm	241 mm	278 mm	315 mm
Overall depth	64 mm	64 mm	64 mm	73 mm	73 mm	73 mm
Weights						
Weight (without packaging)	1.4 kg	2.1 kg	2.8 kg	4.3 kg	5.5 kg	6.9 kg

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SIMATIC HMI Unified Comfort Panels Standard

Technical specifications

Article number	6AV2128-3GB36-0AX1	6AV2128-3KB36-0AX1	6AV2128-3MB36-0AX1	6AV2128-3QB36-0AX1	6AV2128-3UB36-0AX1	6AV2128-3XB36-0AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
General information						
Product type designation	MTP700 Unified Comfort	MTP1000 Unified Comfort	MTP1200 Unified Comfort	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25 °C	50 000 h; At 25 °C	50 000 h; At 25 °C	50 000 h	50 000 h; At 25 °C	30 000 h; At 25 °C
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	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	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes

Technical specifications

Article number	6AV2128-3GB36-0AX1	6AV2128-3KB36-0AX1	6AV2128-3MB36-0AX1	6AV2128-3QB36-0AX1	6AV2128-3UB36-0AX1	6AV2128-3XB36-0AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
• Enclosure Type 12 at the front	No	No	No	No	No	No
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
• ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV	No; included in DNV
• American Bureau of Shipping (ABS)	Yes	Yes	Yes	Yes	Yes	Yes
• Bureau Veritas (BV)	Yes	Yes	Yes	Yes	Yes	Yes
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes
• Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes
• Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes	Yes	Yes	Yes
• Chinese Classification Society (CCS)	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32

Operator panels

Advanced HMI Panel-based SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Standard

Technical specifications

Article number	6AV2128-3GB36-0AX1 SIMATIC HMI MTP700 Unified Comfort Neutr	6AV2128-3KB36-0AX1 SIMATIC HMI MTP1000 Unified Comfort Neut	6AV2128-3MB36-0AX1 SIMATIC HMI MTP1200 Unified Comfort Neut	6AV2128-3QB36-0AX1 SIMATIC HMI MTP1500 Unified Comfort Neut	6AV2128-3UB36-0AX1 SIMATIC HMI MTP1900 Unified Comfort Neut	6AV2128-3XB36-0AX1 SIMATIC HMI MTP2200 Unified Comfort Neut
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes					
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes					
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
• Unified Collaboration	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No					
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Alarm system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	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	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte			12 Mbyte		
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Screens						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	No
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes

Technical specifications

Article number	6AV2128-3GB36-0AX1	6AV2128-3KB36-0AX1	6AV2128-3MB36-0AX1	6AV2128-3QB36-0AX1	6AV2128-3UB36-0AX1	6AV2128-3XB36-0AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
• Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	214 mm	280 mm	326 mm	398 mm	464 mm	529 mm
Height of housing front	158 mm	205 mm	237 mm	257 mm	294 mm	331 mm
Mounting cutout, width	197 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	141 mm	189 mm	221 mm	241 mm	278 mm	315 mm
Overall depth	64 mm	64 mm	64 mm	73 mm	73 mm	73 mm
Weights						
Weight (without packaging)	1.4 kg	2.1 kg	2.8 kg	4.3 kg	5.5 kg	6.9 kg

More information

Every Unified Comfort Panel is available in two different design variants.

- The standard design has Siemens and SIMATIC HMI branding on the front and a silver-colored aluminum frame.
- The neutral design has no branding on the front and a black aluminum frame.

Note:

The devices with the Article No. extension *-0AX1 have additional certifications for explosion-proof areas as well as for use in shipbuilding (see technical specifications). All other functions and properties are fully compatible with the devices with Article No. extension *-0AX0.

More information is available on the internet at:

<http://www.siemens.com/unified-comfort-panels>

For selected SIMATIC HMI Unified Comfort Panels, the option exists to apply the customer name or logo or to select the membrane color in accordance with the customer's corporate design. This is also possible for small quantities.

More information is available at:

<http://www.siemens.com/express-hmi-tool>

Operator panels

Advanced HMI Panel-based
SIMATIC HMI Unified Comfort Panels

SIPLUS HMI Unified Comfort Panels Standard

Overview



SIPLUS HMI Unified Comfort Panels - standard devices

SIPLUS HMI Unified Comfort Panels consist of six 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 Comfort Panel is available in the standard design with Siemens and SIMATIC HMI branding and a silver-colored aluminum frame.

All Unified Comfort Panels come with integrated Edge functionality.

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

Furthermore, a WinCC Unified Client Operate (V17 or higher) for remote operator control and monitoring, and a WinCC Unified Client Monitor (V18 or higher) for monitoring only are also included. Additional clients can be enabled with a license. Up to three client licenses can be used.

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.

Siemens Industrial Edge can be used in two different ways:

- Device-managed Edge
- Centrally-managed Edge (planned)

SIMATIC HMI Unified Comfort Panels can also be ordered with a neutral design.

Note:

The technical specifications of the neutral design devices correspond to the technical specifications of the devices with standard design.

SIPLUS extreme products are based on SIMATIC standard products. The contents listed here were taken from the respective standard products. SIPLUS extreme-specific information was added.

Ordering data

Article No.

SIPLUS HMI Unified Comfort Panels

Standard design

SIPLUS HMI MTP700 Unified Comfort, with conformal coating

6AG1128-3GB06-4AX1

SIMATIC HMI MTP1000 Unified Comfort Panel, with conformal coating

6AG1128-3KB06-4AX1

SIMATIC HMI MTP1200 Unified Comfort Panel, with conformal coating

6AG1128-3MB06-4AX1

Accessories

EDGE Runtime for SIMATIC Unified Comfort

Runtime software, single license, license key for download, without software and documentation, Class A, email address required for delivery

6AV2170-2BA00-0AA0

Accessories

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

Operator panels

Advanced HMI Panel-based SIMATIC HMI Unified Comfort Panels

SIPLUS HMI Unified Comfort Panels Standard

Technical specifications

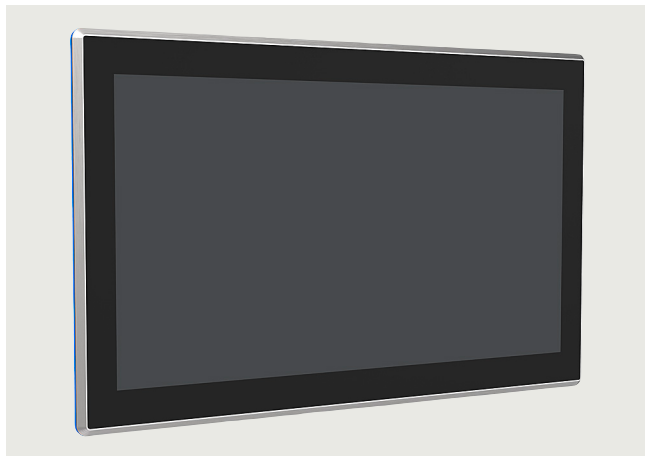
Article number	6AG1128-3GB06-4AX1 SIPLUS HMI MTP700 Unified Comfort	6AG1128-3KB06-4AX1 SIPLUS HMI MTP1000 Unified Comfort	6AG1128-3MB06-4AX1 SIPLUS HMI MTP1200 Unified Comfort
Ambient conditions			
Suited for indoor use	Yes	Yes	Yes
Suited for outdoor use	No	No	No
Ambient temperature during operation			
Operation (vertical installation)			
- For vertical installation, min.	0 °C; = Tmin	0 °C; = Tmin	0 °C; = Tmin
- For vertical installation, max.	50 °C; = Tmax	50 °C; = Tmax	50 °C; = Tmax
Altitude during operation relating to sea level			
• Installation altitude above sea level, max.	5 000 m	5 000 m	5 000 m
• Ambient air temperature-barometric pressure-altitude	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)	Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m)
Relative humidity			
• With condensation, tested in accordance with IEC 60068-2-38, max.	100 %; RH incl. condensation/frost (no commissioning when condensation present), horizontal at vertical mounting position	100 %; RH incl. condensation/frost (no commissioning when condensation present), horizontal at vertical mounting position	100 %; RH incl. condensation/frost (no commissioning when condensation present), horizontal at vertical mounting position
Resistance			
Coolants and lubricants			
- Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems			
- to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
- to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea			
- to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)	Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna)
- to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
- to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *	Yes; Class 6S3 incl. sand, dust; *
Usage in industrial process technology			
- Against chemically active substances acc. to EN 60654-4	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)	Yes; Class 3 (excluding trichlorethylene)
- Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark			
- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating			
• Coatings for printed circuit board assemblies acc. to EN 61086	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability	Yes; Class 2 for high reliability
• Protection against fouling acc. to EN 60664-3	Yes; Type 1 protection	Yes; Type 1 protection	Yes; Type 1 protection
• Military testing according to MIL-I-46058C, Amendment 7	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life	Yes; Discoloration of coating possible during service life
• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A	Yes; Conformal coating, Class A

Operator panels

Advanced HMI Panel-based
SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Hygienic

Overview



SIMATIC HMI MTP2200 Unified Comfort Panel Hygienic, neutral design

SIMATIC HMI Unified Comfort Panels Hygienic - standard devices

SIMATIC HMI Unified Comfort Panels Hygienic comprise six different devices with different 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 Comfort Panel Hygienic is available in a standard design with Siemens and SIMATIC HMI branding and a silver-colored aluminum frame.

All Unified Comfort Panels Hygienic are supplied with integrated Edge functionality.

SIMATIC WinCC Unified includes visualization, communication, alarms/messages, report generation, parameter set management, archiving, and user administration.

Furthermore, a WinCC Unified Client Operate (V17 or higher) for remote operator control and monitoring, and a WinCC Unified Client Monitor (V18 or higher) for monitoring only are also included. Additional clients can be enabled with a license.

In total, up to three client licenses can be used.

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.

Siemens Industrial Edge can be used in two different ways:

- Device-managed Edge
- Centrally-managed Edge (planned)

SIMATIC HMI Unified Comfort Panels Hygienic can also be ordered with a neutral design.

Note:

The technical specifications of the neutral design devices correspond to the technical specifications of the devices with standard design.

Ordering data

Article No.

Unified Comfort Panels Hygienic

SIMATIC HMI MTP700 Unified Comfort Hygienic

Touch operation,
7" widescreen TFT display,
16 million colors,
PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD

6AV2128-3GB40-0AX0

SIMATIC HMI MTP1000 Unified Comfort Hygienic

Touch operation,
10.1" widescreen TFT display,
16 million colors,
PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD

6AV2128-3KB40-0AX0

SIMATIC HMI MTP1200 Unified Comfort Hygienic

Touch operation,
12.1" widescreen TFT display,
16 million colors,
PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD

6AV2128-3MB40-0AX0

SIMATIC HMI MTP1500 Unified Comfort Hygienic

Touch operation,
15.6" widescreen TFT display,
16 million colors,
PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD

6AV2128-3QB40-0AX0

SIMATIC HMI MTP1900 Unified Comfort Hygienic

Touch operation,
18.5" widescreen TFT display,
16 million colors,
PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD

6AV2128-3UB40-0AX0

SIMATIC HMI MTP2200 Unified Comfort Hygienic

Touch operation,
21.5" widescreen TFT display,
16 million colors,
PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD

6AV2128-3XB40-0AX0

SIMATIC HMI MTP700 Unified Comfort Hygienic Neutral

Neutral, touch operation,
7" widescreen TFT display,
16 million colors,
PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD

6AV2128-3GB70-0AX0

Operator panels

Advanced HMI Panel-based SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Hygienic

Ordering data	Article No.		Article No.	
SIMATIC HMI MTP1000 Unified Comfort Hygienic Neutral Neutral, touch operation, 10.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD	6AV2128-3KB70-0AX0		SIMATIC HMI MTP1900 Unified Comfort Hygienic Neutral Neutral, touch operation, 18.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD	6AV2128-3UB70-0AX0
SIMATIC HMI MTP1200 Unified Comfort Hygienic Neutral Neutral, touch operation, 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD	6AV2128-3MB70-0AX0		SIMATIC HMI MTP2200 Unified Comfort Hygienic Neutral Neutral, touch operation, 21.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD	6AV2128-3XB70-0AX0
SIMATIC HMI MTP1500 Unified Comfort Hygienic Neutral Neutral, touch operation, 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16, contains open source software, which is provided free of charge, see enclosed DVD	6AV2128-3QB70-0AX0			

Operator panels

Advanced HMI Panel-based SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Hygienic

Technical specifications

Article number	6AV2128-3GB40-0AX0	6AV2128-3KB40-0AX0	6AV2128-3MB40-0AX0	6AV2128-3QB40-0AX0	6AV2128-3UB40-0AX0	6AV2128-3XB40-0AX0
	SIMATIC HMI MTP700 Unified Comfort Hyg	SIMATIC HMI MTP1000 Unified Comfort Hyg	SIMATIC HMI MTP1200 Unified Comfort Hyg	SIMATIC HMI MTP1500 Unified Comfort Hyg	SIMATIC HMI MTP1900 Unified Comfort Hyg	SIMATIC HMI MTP2200 Unified Comfort Hyg
General information						
Product type designation	MTP700 Unified Comfort Hygienic	MTP1000 Unified Comfort	MTP1200 Unified Comfort Hygienic	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort Hygienic
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Monitor keyboard	Yes	Yes		Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	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	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes

Technical specifications

Article number	6AV2128-3GB40-0AX0 SIMATIC HMI MTP700 Unified Comfort Hyg	6AV2128-3KB40-0AX0 SIMATIC HMI MTP1000 Unified Comfort Hyg	6AV2128-3MB40-0AX0 SIMATIC HMI MTP1200 Unified Comfort Hyg	6AV2128-3QB40-0AX0 SIMATIC HMI MTP1500 Unified Comfort Hyg	6AV2128-3UB40-0AX0 SIMATIC HMI MTP1900 Unified Comfort Hyg	6AV2128-3XB40-0AX0 SIMATIC HMI MTP2200 Unified Comfort Hyg
Degree and class of protection						
IP (at the front)	IP69	IP69	IP69	IP69	IP69	IP69
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• Enclosure Type 12 at the front	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
Standards, approvals, certificates						
CE mark	Yes; CE marking / EC Declaration of Conformity	Yes; CE marking / EC Declaration of Conformity	Yes	Yes	Yes	Yes
UKCA mark		Yes	Yes	Yes	Yes	Yes
cULus	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
FM approval	No	No				
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
Use in hazardous areas						
• ATEX Zone 2	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• ATEX Zone 22	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• IECEx Zone 2	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• IECEx Zone 22	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• cULus Class I Zone 2, Division 2	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• cULus Class II Division 2	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• FM Class I Division 2	No	No	No	No	No	No
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation

Operator panels

Advanced HMI Panel-based SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Hygienic

Technical specifications

Article number	6AV2128-3GB40-0AX0	6AV2128-3KB40-0AX0	6AV2128-3MB40-0AX0	6AV2128-3QB40-0AX0	6AV2128-3UB40-0AX0	6AV2128-3XB40-0AX0
	SIMATIC HMI MTP700 Unified Comfort Hyg	SIMATIC HMI MTP1000 Unified Comfort Hyg	SIMATIC HMI MTP1200 Unified Comfort Hyg	SIMATIC HMI MTP1500 Unified Comfort Hyg	SIMATIC HMI MTP1900 Unified Comfort Hyg	SIMATIC HMI MTP2200 Unified Comfort Hyg
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes			Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	No	No	No	No	No	No
• Unified Collaboration	No	No	No	No	No	No
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Alarm system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer						
- Circulating buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte		12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Screens						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17

Operator panels

Advanced HMI Panel-based SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Hygienic

Technical specifications

Article number	6AV2128-3GB40-0AX0	6AV2128-3KB40-0AX0	6AV2128-3MB40-0AX0	6AV2128-3QB40-0AX0	6AV2128-3UB40-0AX0	6AV2128-3XB40-0AX0
	SIMATIC HMI MTP700 Unified Comfort Hyg	SIMATIC HMI MTP1000 Unified Comfort Hyg	SIMATIC HMI MTP1200 Unified Comfort Hyg	SIMATIC HMI MTP1500 Unified Comfort Hyg	SIMATIC HMI MTP1900 Unified Comfort Hyg	SIMATIC HMI MTP2200 Unified Comfort Hyg
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Accessories						
Further accessories are available	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
• Plastic	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front		292 mm	338 mm	412 mm	479 mm	556 mm
Height of housing front		217 mm	249 mm	273 mm	309 mm	358 mm
Mounting cutout, width	197 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	141 mm	189 mm	221 mm	241 mm	278 mm	315 mm
Overall depth	66 mm	67 mm	64 mm	79 mm	79 mm	79 mm
Weights						
Weight (without packaging)	1.9 kg	2.65 kg	3.4 kg	5.4 kg	6.7 kg	8.15 kg

Operator panels

Advanced HMI Panel-based SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Hygienic

Technical specifications

Article number	6AV2128-3GB70-0AX0	6AV2128-3KB70-0AX0	6AV2128-3MB70-0AX0	6AV2128-3QB70-0AX0	6AV2128-3UB70-0AX0	6AV2128-3XB70-0AX0
	SIMATIC HMI MTP700 UCP Hyg Neutral	SIMATIC HMI MTP1000 UCP Hyg Neutral	SIMATIC HMI MTP1200 UCP Hyg Neutral	SIMATIC HMI MTP1500 UCP Hyg Neutral	SIMATIC HMI MTP1900 UCP Hyg Neutral	SIMATIC HMI MTP2200 UCP Hyg Neutral
General information						
Product type designation	MTP700 Unified Comfort Hygienic	MTP1000 Unified Comfort	MTP1200 Unified Comfort Hygienic	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort Hygienic
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
• Horizontal image resolution	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
• Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
• MTBF backlighting (at 25 °C)	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h
Control elements						
Touch operation						
• Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
• Monitor keyboard	Yes	Yes		Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
• Speaker	No	No	No	No	No	No
Time of day						
Clock						
• Hardware clock (real-time)	Yes	Yes	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	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
• synchronizable	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
• Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes
Degree and class of protection						
IP (at the front)	IP69	IP69	IP69	IP69	IP69	IP69
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• Enclosure Type 12 at the front	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon

Technical specifications

Article number	6AV2128-3GB70-0AX0	6AV2128-3KB70-0AX0	6AV2128-3MB70-0AX0	6AV2128-3QB70-0AX0	6AV2128-3UB70-0AX0	6AV2128-3XB70-0AX0
	SIMATIC HMI MTP700 UCP Hyg Neutral	SIMATIC HMI MTP1000 UCP Hyg Neutral	SIMATIC HMI MTP1200 UCP Hyg Neutral	SIMATIC HMI MTP1500 UCP Hyg Neutral	SIMATIC HMI MTP1900 UCP Hyg Neutral	SIMATIC HMI MTP2200 UCP Hyg Neutral
Standards, approvals, certificates						
CE mark	Yes; CE marking / EC Declaration of Conformity	Yes; CE marking / EC Declaration of Conformity	Yes	Yes	Yes	Yes
UKCA mark		Yes	Yes	Yes	Yes	Yes
cULus	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
FM approval	No	No				
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
Use in hazardous areas						
• ATEX Zone 2	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• ATEX Zone 22	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• IECEx Zone 2	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• IECEx Zone 22	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• cULus Class I Zone 2, Division 2	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• cULus Class II Division 2	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon	No; Available soon
• FM Class I Division 2	No	No	No	No	No	No
• FM Class II Division 2	No	No	No	No	No	No
Marine approval						
• Germanischer Lloyd (GL)	No	No	No	No	No	No
• American Bureau of Shipping (ABS)	No	No	No	No	No	No
• Bureau Veritas (BV)	No	No	No	No	No	No
• Det Norske Veritas (DNV)	No	No	No	No	No	No
• Korean Register of Shipping (KRS)	No	No	No	No	No	No
• Lloyds Register of Shipping (LRS)	No	No	No	No	No	No
• Nippon Kaiji Kyokai (Class NK)	No	No	No	No	No	No
• Polski Rejestr Statkow (PRS)	No	No	No	No	No	No
• Chinese Classification Society (CCS)	No	No	No	No	No	No
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during operation						
Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
• Operation, max.	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation	90 %; no condensation
Configuration						
Configuration software						
• WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
• WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes

Operator panels

Advanced HMI Panel-based
SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Hygienic

Technical specifications

Article number	6AV2128-3GB70-0AX0 SIMATIC HMI MTP700 UCP Hyg Neutral	6AV2128-3KB70-0AX0 SIMATIC HMI MTP1000 UCP Hyg Neutral	6AV2128-3MB70-0AX0 SIMATIC HMI MTP1200 UCP Hyg Neutral	6AV2128-3QB70-0AX0 SIMATIC HMI MTP1500 UCP Hyg Neutral	6AV2128-3UB70-0AX0 SIMATIC HMI MTP1900 UCP Hyg Neutral	6AV2128-3XB70-0AX0 SIMATIC HMI MTP2200 UCP Hyg Neutral
Languages						
Online languages						
• Number of online/runtime languages	32	32	32	32	32	32
Functionality under WinCC Unified						
Applications/options						
• Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes	Yes			Yes	Yes
• Web browser	Yes	Yes	Yes	Yes	Yes	Yes
• PDF Viewer	Yes	Yes	Yes	Yes	Yes	Yes
• Media Player	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Sm@rtServer	Yes	Yes	Yes	Yes	Yes	Yes
• SIMATIC WinCC Audit	No	No	No	No	No	No
• Unified Collaboration	No	No	No	No	No	No
Number of Visual Basic Scripts	No	No	No	No	No	No
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
• time-controlled	Yes	Yes	Yes	Yes	Yes	Yes
• task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
Alarm system						
• Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
• Analog messages						
- Number of analog messages	300	300	300	300	300	300
• Message buffer						
- Circulating buffer	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive	Yes; Configured as alarm archive
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
• Number of parameter set types	750	750	750	750	750	750
• Size of internal parameter set memory	12 Mbyte	12 Mbyte		12 Mbyte	12 Mbyte	12 Mbyte
• Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
Variables						
• Number of variables per device	8 000	8 000	8 000	8 000	8 000	8 000
• Number of variables per screen	600	600	600	800	800	800
Screens						
• Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
Archiving						
• Number of archives per device	50	50	50	50	50	50
Security						
• Number of roles	50	50	50	50	50	50
• Number of users	200	200	200	200	200	200
• Central user administration	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17	Yes; as of WinCC Unified V17
Transfer (upload/download)						
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes

Operator panels

Advanced HMI Panel-based SIMATIC HMI Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Hygienic

Technical specifications

Article number	6AV2128-3GB70-0AX0	6AV2128-3KB70-0AX0	6AV2128-3MB70-0AX0	6AV2128-3QB70-0AX0	6AV2128-3UB70-0AX0	6AV2128-3XB70-0AX0
	SIMATIC HMI MTP700 UCP Hyg Neutral	SIMATIC HMI MTP1000 UCP Hyg Neutral	SIMATIC HMI MTP1200 UCP Hyg Neutral	SIMATIC HMI MTP1500 UCP Hyg Neutral	SIMATIC HMI MTP1900 UCP Hyg Neutral	SIMATIC HMI MTP2200 UCP Hyg Neutral
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• S7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• S7-200	No	No	No	No	No	Yes
• S7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
• Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
• OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
• OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
• Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Accessories						
Further accessories are available	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
• Plastic	Yes	Yes	Yes	Yes	Yes	Yes
• Stainless steel	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front		292 mm	338 mm	412 mm	479 mm	556 mm
Height of housing front		217 mm	249 mm	273 mm	309 mm	358 mm
Mounting cutout, width	197 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	141 mm	189 mm	221 mm	241 mm	278 mm	315 mm
Overall depth	66 mm	67 mm	64 mm	79 mm	79 mm	79 mm
Weights						
Weight (without packaging)	1.9 kg	2.65 kg	3.4 kg	5.4 kg	6.7 kg	8.15 kg