SIEMENS



SIMATIC HMI Panels

Efficient to a new level

siemens.com/hmi



The TIA Portal represents the intuitive, efficient and proven engineering framework for all automation tasks.



New productivity benchmarks for sustainable competitive advantages

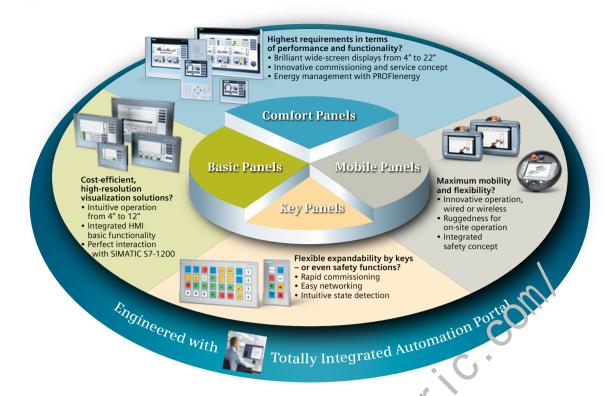
Against the background of increasing global competition, the consistent utilization of all optimization potentials throughout the entire lifecycle of a machine or plant has never been more important than today. Optimized processes facilitate reduced total cost of ownership, minimized time-to-market and enhanced quality.

Totally Integrated Automation is perfectly attuned to meet these targets while also being open for international standards and third-party systems. With its special system characteristics, Tatally Integrated Automation supports the entire lifecycle of a machine or plant.

SIMATIC, the world's leading automation system, represents a core component of Totally Integrated Automation and comprises a multitude of standardized, flexible and scalable products. For example: SIMATIC operator panels, which are presented in this brochure.

The integrated engineering framework for controllers, HMI and drives: TIA Portal

With the Totally Integrated Automation Portal (TIA Portal), Siemens offers an engineering framework which facilitates the implementation of automation solutions in all sectors worldwide. From automation system planning, commissioning, operation and maintenance down to expansion – the TIA Portal offers significant saving potentials in terms of engineering time, costs and expenditures.



SIMATIC HMI Panels

First choice for efficient operation and monitoring

SIMATIC HMI Panels have been tried and tested in the most various applications throughout all sectors for years. They not only feature an innovative design and high performance – as a unique highlight, they can be configured via SIMATIC WinCC in the TIA Portal. Use s can thus benefit from unprecedented engineering efficiency.

Integrated functionality across all display sizes

The hardware's functionality is identical throughout a device range. Simply select the optimum display size for your application and choose bet veer operation via touch screen and/or keys. As the software is scalable, you can start with a small solution and further expand it any time as required – for example by increasing the number of tags or variables.

Innovative graphical user interfaces open up completely new possibilities in terms of intuitive operation and monitoring.

Integrated functionality across all display sizes

- SIMATIC HMI Comfort Panels: First choice for demanding applications
- SIMATIC HMI Basic Panels:
 Basic functions for simple HMI applications
- SIMATIC HMI Mobile Panels: Power and safety in your hands
- SIMATIC HMI Key Panels: Innovative operator panels – for turnkey operation

Unique engineering efficiency

SIMATIC HMI Panels can be intuitively configured in the TIA Portal via the scalable SIMATIC WinCC software. This results in increased engineering efficiency when further components from the Totally Integrated Automation portfolio are used – e.g. SIMATIC controllers. The perfect interaction with STEP 7 does away with multiple entries and ensures maximum data consistency.

Long-term value maintenance

SIMATIC products facilitate long-term investment protection. Existing projects can be easily and directly migrated to the successor product. Following the phase-out period of a model range, we support you with long-term spare parts availability. Moreover, the matching accessories for each product are available throughout the entire product lifecycle.

The TIA Selection Tool helps you to select
the suitable device for your application
www.siemens.com/tia-selection-tool
Convince yourself of our HMI portfolio in practical applications
www.siemens.com/hmi-success-stories

Find out more
www.siemens.com/hmi
HMI Panels

SIMATIC HMI **Comfort Panels**

First choice for demanding HMI tasks





Various display sizes – identical functionality

All SIMATIC HMI Comfort Panels consistently offer the same high-end functionality. Featuring highresolution wide-screen displays from 4" to 22", optionally with touch or key operation, they can be optimally adjusted to any application. Furthermore, they offer numerous innovations:

Flexible high-resolution displays

With up to 40% more visualization space, the widescreen format offers extended display options for complex operating screens – and a clear differentiation between application monitoring and operation. The high resolution with 16 million colors facilitates detailed process visualization and optimum readability. Together with the wide reading angle of 170°, this ensures optimum readability. The displays' high brightness is 100 % dimmable to allow for optimum adjustability to individual requirements – this is for example important for applications on ships and ensures reduced energy consumption.

New innovative graphical user interface

A new, innovative graphical user interface opens up completely new possibilities in terms of intuitive machine operation and monitoring.

Integrated high-end functionality

SIMATIC HMI Comfort Pane's are characterized by their high performance which amongst others ensures rapid image build. Irrespective of the display size, all devices offer archives, VB scripts and various viewers for the display of plant documentation (e.g. as PDF) and Internet websites. The system diagnostics options in interaction with SIMATIC controllers represent an innovation. Diagnostics information which could previously only be obtained via programming device can now be read out via the Comfort Panel.

* To fully ensure the retention of individual, not yet archived data, the use of an uninterruptible power supply unit is recommended

Efficient energy management

The standardized PROFlenergy profocol supports the coordinated central disconrect on of redundant energy loads and the detection of measured energy values. This facilitates disconnection of the Comfort Panels' displays even during short break times for reduced energy consumptic 1. PROFINET as a standard facilitates easy integration in existing plant structures and offers high investment protection.

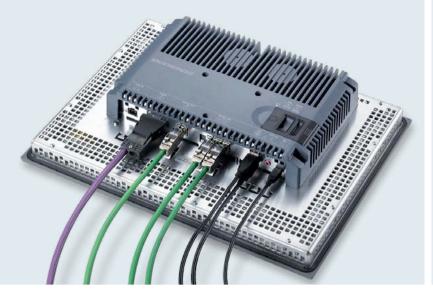
Maximum anta security if power fails

In case of a power failure, Comfort Panels buffer sufficient encray to correctly terminate all active archives and to back up the data already archived in RDB format. This ensures the retention of all data in the archive in a cost-efficient manner and without the use of a maintenance-intensive battery.*

Suitability for harsh environments

The rugged SIMATIC HMI Comfort Panels come with numerous approvals for application in various countries and for use in sectors subject to increased requirements. From 7" upward, the devices are equipped with particularly durable aluminum die-cast fronts. All Comfort Panels are approved for application in explosive areas in accordance with UL CL.I, Div.2. Furthermore, devices up to 12" are certified for Zones 2 and 22 in accordance with ATEX and offer various marine approvals such as GL or ABS.







Integrated interfaces

SIMATIC HMI Comfort Panels are suitable for integration in PROFINET and PROFIBUS networks and feature interfaces for the connection of USB I/O. From 7" upwards, the devices come with a 2-port Ethernet switch and from 15" upwards with an additional Gigabit PROFINET interface.

Eased project transfer

Standard cables can be used for loading HMI projects via PROFINET / Ethernet or USB – no special cables are required. Device settings are made during configuration, additional settings on the device itself are done away with. This ensures eased commissioning. The project data and device settings are saved to a system card integrated in the device and automatically updated. The system card can be used for project transfer to a further device.

New: Monitoring with network cameras

The download option plant monitoring via network camera and camera control allows for:

- Monitoring of multiple remote processes on the Comfort Panel
- Monitoring of difficult-to-access areas
- Documentation and saving of machine states Camera control download viz: www.siemens.com/comfc.com/savels

Printing and documentation

- Paperless printing in PDF / HTML format
- Screenshots terrapid documentation
- · Archiving of process values and reports

Extremely flexible for any outdoor application

For extreme ambient conditions, e.g. in cold storage warehouses, on ships or in oil and gas applications, SIMATIC HMI Outdoor Panels are in preparation. They offer:

- Rugged and durable UV-protected device front (IP65)
- Non-reflecting 7- und 15-inch wide-screen displays with automatic dimming for use in all light conditions
- Location- and sector-independent applicability through wide temperature range from -30°C to +60°C with max.
 90% humidity and comprehensive certifications

Highlights

- Device variety from 4" to 2.1", with touch screen and/or control keys
- Brilliant displays in wide creen format
- All touch devices also support vertical installation for optimus plant space utilization or for special machine designs
- Integrated high-end functionality:

 Archives, VB scripts and various viewers for plant
 cocumentation display e.g. as PDF or in the form
 of Internet websites as standard
- Maximum data security
- Easy commissioning, rapid service
- Integrated system diagnostics
- Cross-sector and cross-regional applicability
- Multiple interfaces for process communication
- Integrated PROFINET switch from 7"

Migration made easy

Opt for SIMATIC HMI systems of the latest generation to make your HMI applications even more efficient.

Further information:

www.siemens.com/panel-innovation

Find out more

www.siemens.com/comfort-panels

SIMATIC HMI Comfort Panel Starter Kits www.siemens.com/comfort-panels-starter-kits

Comfort Panels

SIMATIC HMI Basic Panels 2nd Generation

Cost-efficient, high-resolution visualization solutions



Improved process quality

Visualization allows for considerably increased process quality with compact plants or smaller applications. Featuring all important HMI basic functions, SIMATIC HMI Basic Panels 2nd Generation thus open up completely new possibilities in terms of operation and monitoring also in the field of mechanical engineering at a particularly attractive price.

High-resolution wide-screen displays

SIMATIC HMI Basic Panels 2nd Generation are available with high-resolution wide-screen displays from 4" to 12". These also support vertical configuration. Their high resolution and color depth of 64,000 colors facilitate improved process visualization. The displays' brightness is dimmable up to 100 %, offering optimum flexibility.

Innovative graphical user interface

The new innovative user interface provides a great variety in terms of experiencing and operation. The new SIMATIC HMI Basic Panels feature user-friendly touch a reens and particularly handy, freely configurable keys.

Improved usability

The new USB interface facilitates the connection of keyboard, mouse or barcode conner and supports easy data archiving on a USE stick

Perfect interaction

Thanks to a PROF.RU3 or PROFINET interface, SIMATIC HMI Basic Panels 2nd Generation allow for connection with various PLCs. The visualization of applications of the modular compact controller SIMATIC S7-1200 offers particularly great added value.

Highlights

- Ideal entry-level range for simple HMI applications
- Installation compatibility with SIMATIC HMI Comfort Panels and existing SIL1ATIC HMI Basic Panels 4" and 6"
- Flexible scalability within the HMI range
- High-resolution, dimmable wide-screen displays with 64,000 colors
- Introvative user interface and improved usability thanks to new controls and graphics
- Touch / key functionality for intuitive operation
- Interface for connection with various PLCs
- Versions for PROFIBUS and PROFINET
- Archiving via USB stick
- Engineered in the TIA Portal

Basic

SIMATIC HMI Mobile Panels 2nd Generation

Power and safety in your hands



Irrespective of sector or application: Mobile operator panels – both wired and wireless – offer decisive advantages when mobility is required for the on-site operation and monitoring of machines and plants.

Wired: SIMATIC HMI Mobile Panels 2nd Generation

Efficient engineering – the basis for perfect design and operation. Engineering in the TIA Portal allows for a faster and easier creation of your visualization than ever before. Using the innovative Style Editor, the operating screens can now both be configured for stationary as well as mobile applications. The user selects the new Mobile Panel and creates its configuration, incl. the specific functions for mobile application such as connection point detection or safety operator control evaluation.

Performance and brilliance for mobile high-end applications

The Mobile Panels' high performance and high-end functionality allow for the realization of demanding mobile applications. The 7" or 9" wide-screen discipled is 100% infinitely dimmable and can be adjusted to various environments. It offers razor-sharp, bright and detailed images in 16 million colors and also supports the representation of complex operating screens or graphics thanks to its 40% increased display size.

On the safe side - with sainty

The Mobile Panels can be configured for alternation of the corresponding user interface according to connection point. Machine-specific HMI authorizations or actions can be realized independently of the selected connection point via the connection box ID. PROFINET connection boxes can be connected in series via integrated switches.

- Permanently wired safety relays (e.g. SIRIUS 3SK1)
- Fail-safe I/Os (e.g. SIMATIC ET 200)
- PROFIsafe with fail-safe controllers (e.g. SIMATIC S7-1500F)

Highlights SIMATIC HMI Mobile Panels 2nd Gen.

- Connection point detection for location-dependent operator functions
- Optimum usability through illuminated E-STOP button
- Flexible evaluation option for safety operator controls
- Extended connection options through connection boxes (compact, standard, advanced)

Compact connection option

The rew connection box compact requires only one third the space of the normal connection box. It is simply screwed onto the control cabinet door's outside and then completely wired from the inside. It can be virtually accommodated anywhere on the machine or plant, thanks to which connections for the Mobile Panels can always be installed at the ideal position for the operator.

Wireless: SIMATIC HMI Mobile Panel 277 IWLAN

The SIMATIC HMI Mobile Panel 277(F) IWLAN represents a rugged operator panel for wireless applications with optional safety functionality. It offers:

- Maximum flexibility for mobile operation and monitoring through Industrial Wireless LAN (IWLAN)
- High safety according to SIL 3 or PL e
- Consistently integrated safety in interaction with SIMATIC fail-safe controllers

Highlights SIMATIC HMI Mobile Panels 277 IWLAN

- Large field of action through use of multiple access points (with iPCF, rapid roaming)
- Location-dependent operator functions which can be enabled via transponder
- E-STOP and acknowledgement button for wireless applications

Find out more

www.siemens.com/mobile-panels



SIMATIC HMI Key Panels

Innovative operator panels for up to 60 % time savings in terms of mounting



The compact SIMATIC HMI Key Panels replace conventional operator panels at a way more cost-favorable price. Thanks to the devices' turnkey preassembly, they support time savings of up to 60 % in terms of mounting.

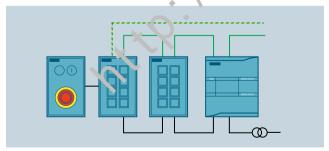
Flexible mounting and service

The devices are dimensioned for direct switchboard installation and can also be mounted to third-party support arm and stand systems as a standard by means of flexible mechanics. This supports their optimum use on machines in any application – for ergonomic operation at various points of plants or production lines.

As power supply and bus cables are directly looped through on the Key Panel, no separate terminals are required. Furthermore, the F-versions support the direct connection of E-STOP devices or safety-related sensers, which further minimizes the wiring expenditures.

Highlights

- Large mechanical buttons ard muiti-color LEDs (daylight-readable
- Maximum flexibility through parameterization options
- Wiring time savi. gs of over 60 % and material cost reductions of over 30 %
- Easy-to-laxel keys in IP65
- 2 PhoFineT ports (incl. switch) for the assembly of ine and ring structures
- Integrated digital I/Os on the device's rear for the connection of key switches, indicator lights, etc.
- Direct connection of E-STOP and other fail-safe sensors with F-versions
- Functional compatibility with all standard PROFINET master CPUs (also by third-party manufacturers)



Reduced hardware costs through integrated PROFINET 2-port switch and support of the shared device functionality KP8 or KP8F



SIMATIC HMI Devices with All-Round Protection

Device versions for special requirements



Our portfolio of proven SIMATIC HMI operator panels is supplemented by versions with all-round degree of protection IP65 for support arm or stand mounting. The devices are based on standard devices from our portfolio which have been tried-and-tested in countless applications worldwide.

Flexible mounting and service

The devices can be mounted to third-party support arm and stand systems as a standard by means of flexible mechanics. This supports their optimum use on machines in any application – for ergonomic operation at various points of plants or production lines.

The rear panel's easy replaceability, also with device mounting on the machine, ensures outstanding service friendliness – e.g. for subsequent wiring or replacement of memory cards. Moreover, the operator panels can be easily adjusted to various requirements by means of modular expansion units, e.g. by equipping them with plant-specific mechanical pushbuttons or ESTOP devices.

The range's technology is based on existing installation devices

- SIMATIC HMI IPC477C PRO 15" and 19"
- SIMATIC Flat Panel Monitor PRO 15" and 19"
- SIMATIC Thin Client PRO 15"
- SIMATIC MP 377 PRC 15

High flexibility through IP20 backplane cover concept

IP20 backplane overs with VESA mount are available for SIMATIC HMI devices with 15", 19" und 22" wide-screen fronts. Special covers facilitate rapid and service-friendly access to interfaces and memory cards in installed state.

Highlights

- Easy support arm or stand mounting
- High service friendlings
- High compactness and low weight
- Easy adjust, bility and modular expandability,
 e.g. with SIMATIC HMI Key Panels KP8 and KP8F



SIMATIC Flat Panel Monitor PRO 19" and HMI IPC477C PRO 15" with expansion units, incl. SIMATIC HMI Key Panels

Find out more
www.siemens.com/ip65-hmi-devices

Customized Automation

Matched to your requirements



From minor design changes to OEM solutions, down to turnkey products: Customized products from our SIMATIC portfolio offer you the high quality and functionality of our proven SIMATIC products.

Customized design

Our SIMATIC products can be modified in terms of design to facilitate their seamless adjustment to your individual machine and plant design and your special operating and control philosophy. These design products are fully compatible with the standard products with regard to technology and functionality and are completely integrated in Totally Integrated Automation.

OEM product modifications

We offer special product modifications for our OEM customers (original equipment manufacturers) which support the realization of individual automation solutions which cannot be implemented with standard products or devices with design modifications. For this purpose, we assemble a SIMATIC OEM device from our standard components, customer-specific components and additionally required software function expansion: — analogous to a modular system.

Customized turnkey products

These ready-to-install turnkov r roducts are realized exactly according to your specifications to meet your individual technical requirement. They are based on our standard products which a factorized and assembled specifically for you. Turnkey products comprise all wiring, connections, enclosure solutions and suitable automation components, including the required software filling with customer-specific images.

Sector products for typical applications

Customized SIMATIC products can be equipped with additional characteristics for application in special industrial sectors.

- Renewable energies
- Automotive industry
- General mechanical engineering
- Food, beverages and tobacco industry / pharmaceutical industry
- Oil and gas / chemical industry and shipbuilding

Highlights

Time savings

- You benefit from our comprehensive customization know-how and our rong-standing experience.
- You need not acquire any additional know-how and can fully concentrate on your own core competencies.

Increased profitability

- You benefit from the hardware modifications' flexible combinability on the basis of standards, which makes customized solutions attractive in terms of costs even for small quantities.
- You determine the optimum cost-performance ratio for you by specifying the customization type and scope.

Strengthened competitive advantage

- You rely on SIMATIC products which comply with the strictest quality standards, offer optimum performance and thus ensure maximized productivity and minimum downtimes.
- You are provided with customized products which can be excellently integrated in Totally Integrated Automation.

Find out more

www.siemens.com/customized-automation



SIMATIC WinCC (TIA Portal)

One engineering tool for all HMI panels



WinCC (TIA Portal) is the software for all HMI applications – from simple operation solutions with Basic Panels, down to process visualizations on PC-based multi-user systems.

Maximum configuration efficiency

WinCC (TIA Portal) facilitates the use of device-independent configuration data on various target systems without conversion. The interface adjusts itself to the functional properties of the target device. Joint project data (alarm class, project texts, etc.) are centrally managed in the TIA Portal and can be used across different devices. Furthermore, an assistant for HMI configurations is available independently of the device which supports the rapid and easy creation of the visualization's basic structure.

Image editor for efficient and fast image configuration

- Generation of interlinked image objects via drag & drop, e.g. tags for the generation of input/output fields with process conjection
- Definition of image templates and functions
- Layer technology with up to 3? layers

Object-oriented data management

- Comfortable search and change options
- Configuration of messages and archives directly on the HMI tags no alternation between various editors
- Cross-reference list with direct access to all objects, e.g. for changes or selection

Libraries for configuration objects

- Archiving of all configuration chie ts whether pre-defined or user-defined – ir the library, e.g. of blocks as well as complete images or tags
- Faceplates can be compiled from simple image objects in a customer- and project-specific manner; faceplate changes can be effected centrally via the block definition

Test and commissioning support

- Simulation of HMI projects on the engineering PC
- Marking of incomplete or faulty configurations
 ctly in the respective editor
- Jump to the fault cause on the basis of the compiler's messages

Migration of existing HMI projects

 Complete data import from projects created in WinCC flexible

Find out more www.siemens.com/wincc-tia-portal





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More about SIMATIC to go



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SIMATIC HMI Panels

Technical Data

siemens.com/hmi



Intuitive, efficient, proven: TIA Portal redefines engineering.

Technology Overview

Key Panels

The innovative operator panels







6AV3688-3EH47-0AX0

	KP8 PN	KP8F PN	KP32F PN		
Operating mode					
Function keys (programmable)	8	8	32		
Output type					
Color modes for LED	5 (green, red, yellow, blue, white)				
Typical service life					
Short-stroke keys (in switching cycles)	1,500,000	C			
LEDs (ON period in %)	100%				
Interfaces					
Digital inputs / outputs ¹⁾	8	8	16		
Fail-safe inputs SIL2/SIL3	-1-	2/1	4/2		
PROFINET	2	2	2		
Functionality	. 0				
Key and lamp test					
Degree of protection	0,				
Front/rear	IPoJ/IP20				
Connection to controller					
SIMATIC S7, WinAC	\$7-1200 \$7-1500 \$7-300 \$7-400	\$7-1200 ²⁾ \$7-1500 ²⁾ \$7-300 (F) \$7-400 (F)			
SIMATIC S5	•				
PLC	•				
SINUMER!Y	•				
SIMO.TON	•				
Engined ring software					
Configuration	STEP 7 V5.5 or STEP 7 Basi	ic V11 or higher			
/ mbient conditions					
Installation position	portrait or landscape				
Max. permissible tilt angle without forced ventilation (in °)	+1-30				
Max. relative humidity (in %)	<90				
Temperature					
Operation (vertical installation) in °C	0+55	0 +55	0 +55		
Operation (max. tilt angle) in °C	0+45	0+45	0+45		
Dimensions					
Enclosure front (W x H in mm)	98 x 155	98 x 155	295 x 155		
Installation cutout / device depth (W x H / D in mm)	68 x 129/49	68 x 129/49	275 x 135/39		

[&]quot;) Current ordering data as well as terms of sale and delivery are listed in the catalog ST 80/ST PC and on the Internet at www.siemens.com/industrymall

6AV3688-3AF37-0AX0

6AV3688-3AY36-0AX0

Article No.*)

		Basic Panels				
	Cr	ost-efficient operat	tion and monitorin	ng of simple applica	tions	
	2 nd Generation	2 nd Generation	2 nd Generation	2 nd Generation	1	
	KTP400 Basic	KTP700 Basic DP KTP700 Basic	KTP900 Basic	KTP1200 Basic DP KTP1200 Basic	KP300 Basic mono PN KP400 Basic color PN	
Type of operation	4" touch + key	7" touch + key	9" touch + key	12" touch + key	3.6" key	
Display	Wide-screen TFT, 65k c	colors, LED backlight			FSTN-LCD black-white TFT liquid crystal	
Size (in inches)	4.3"	7"	9"	12.1"	3.6" 4.3"	
Resolution (W x H in pixels)	480 x 272	800 x 480	800 x 480	1,280 x 800	4.3 240 x 80 480 x 272	
MTBF ⁶⁾ of backlight (in h)	20,000	20,000	20,000	20,000	50,000	
(in n) Front dimensions (in mm)	141 x 116	214 x 158	267 x 182	330 x 74',	165 x 97 150 x 186	
Control elements	touch screen and tactile keys	touch screen and tactile keys	touch screen and tactile keys	touch screen and	membrane keypad	
Function keys (programmable) / system keys	4 / –	8 / –	8 / –	10 / –	10 / • 8 / 26	
Usable memory					0120	
User memory	10 MByte	10 MByte	10 M yte	10 MByte	1 MByte	
Memory for options / recipes ⁴⁾	- / 256 KByte	– / 256 KByte	– (2)6 квуte	– / 256 KByte	-/40 KByte	
Message buffer	- / 250 KByte	- / 256 KByte		- / 256 KByte	• 140 KByte	
Interfaces					·	
Serial/MPI/PROFIBUS DP/ PROFINET (Ethernet)	-1-1-1•	-1•1•1- -1-1-1•	-1-1-1•	- • • - - - - •	-1-1-1•	
USB host/USB device	1/-	1/-	1/-	1/-		
Slot for CF / multimedia / SD	-1-1-	-1-1-	-1-1-	-1-1-	-1-1-	
Functionality (when configured with Win		-1-1	-1-1-	-1-1-	-1-1	
Alarm logging	1,000/32	1,000/32	1,000/32	1,000/32	200/32	
(number of alarms / alarm classes)	1,000/32	1,000732	1,000132	1,000132	200132	
Process screens	100	100	100	100	50	
Tags	800	800	800	800	200 250	
Vector graphics			•		•	
Bar graphs / curve diagrams	• / f(t)	• / f(t)	• / f(t)	• / f(t)	• / f(t)	
Faceplates	-/1(t)	-/1(0)	-/1(t) -	-	- / 1(t)	
Recipes	50	50	50	50	5	
Archiving / Visual Basic Scripts	• / -	• / –	• / –	• / -	- <i>l</i> -	
Programming device functions	K	-	-	- 1		
Connection to controller						
SIMATIC S7 / SIMATIC WINAC	• 1 •	• / •	• / •	• / •	• / •	
SINUMERIK/SIMOTION	• / •	• •	• 1 •	• •	-1-	
Allen Bradley / Mitsubishi	• / •	• / •	• / •	• / •	• / •	
Modicon/Omron	• 1 –	• • • -	• 1 –	• / • • / –	• / -	
Engineering software				-1-		
Configuration	WinCC Basic V13 or higher	WinCC Basic V13 or higher	WinCC Basic V13 or higher	WinCC Basic V13 or higher	WinCC Basic V11 or higher	
Options, applications						
Sm@rtServer/Audit/Logon	-1-1-	-1-1-	-1-1-	-1-1-	-1-1-	
OPC Server/ Internet Explorer	-1-	-1-	-1-	-1-	-1-	
Article No.*)	6AV2123-2DB03-0AX0	6AV2123-2GA03-0AX0 6AV2123-2GB03-0AX0	6AV2123-2JB03-0AX0	6AV2123-2MA03-0AX0 6AV2123-2MB03-0AX0	6AV6647-0AH11-3AX0 6AV6647-0AJ11-3AX0	

Comfort Panels

High-end functionality for demanding HMI tasks						
KTP400 Comfort KP400 Comfort	TP700 Comfort KP700 Comfort	TP900 Comfort KP900 Comfort	TP1200 Comfort KP1200 Comfort	TP1500 Comfort KP1500 Comfort	TP1900 Comfort	TP2200 Comfort
4" touch + key 4" key	7" touch 7" key	9" touch 9" key	12" touch 12" key	15" touch 15" key	19" touch	22" touch
Wide-screen TFT, 16 mi	llion colors, LED backligh	t				
4.3"	7"	9"	12.1"	15.4"	18.5"	21.5"
480 x 272	800 x 480	800 x 480	1,280 x 800	1,280 x 800	1,366 x 768	1,920 x 1,080
80,000	80,000	80,000	80,000	80,000	50,000	30,000
140 x 116 152 x 188	214 x 158 308 x 204	274 x 190 362 x 230	330 x 241 454 x 289	415 x 310 483 x 310	485 × 337	560 x 380
touch screen or membrane keypad	touch screen or membrane keypad	touch screen or membrane keypad	touch screen or membrane keypad	touch screen or membrane keypod	touch screen	touch screen
4 (with LED) / – 8 (with LED) / •	- / - 24 (with LED) / •	- / - 26 (with LED) / •	- / - 34 (with LED) / •	- / - 36 (with LED, / •	-1-	-1-
4 MByte	12 MByte	12 MByte	12 MByte	24 /Byt?	24 MByte	24 MByte
4 MByte / 512 KByte	12 MByte / 2 MByte	12 MByte / 2 MByte	12 MByte / 2 MByte	24 Mbyte / 4 MByte	24 MByte / 4 MByte	24 MByte / 4 MByte
•	•	•	•	•	•	•
• 3) / • / • / 1	• 3) • • 2	• 3) / • / • / 2	• 3) • • 2	• 3) • • 3	• 3) / • / • / 3	• 3) / • / • / 3
1/1	2/1	2/1	2/1	2/1	2/1	2/1
- • •	-1•1•	-1•1•	-1•1•	-1•1•	-/•/•	-1•1•
2,000/32	4,000/32	4,000/32	4,000/32	6,000/32	6,000/32	6,000/32
500	500	500	500	750	750	750
1,024	2,048	2,048	2,048	4,096	4,096	4,096
•	•	1 1	•	•	•	•
• / f(t), f(x)	• / f(t), f(x)	• / f(t), f(x)	• / f(t), f(x)	• / f(t), f(x)	• / f(t), f(x)	• / f(t), f(x)
•	•		•	•	•	•
100	300	300	300	500	500	500
• / •	•1•	• / •	• / •	• 1 •	• / •	• / •
STATUS / CONTROL, diagnostics viewer	STATUS/CONTROL, diagnostics riewer	STATUS / CONTROL, diagnostics viewer	STATUS / CONTROL, diagnostics viewer	STATUS / CONTROL, diagnostics viewer	STATUS/CONTROL, diagnostics viewer	STATUS / CONTROL, diagnostics viewer
- 1 -		- / -	- 1 -	- 1 -		
• / •	• •	• / •	• / •	• / •	• / •	• / •
• / •	• / •	• / •	• •	• / •	• •	• / •
• / •	• / •	• / •	• / •	• / •	• / •	•1•
• • • •	• •	• •	• •	• •	• / •	• •
WinCC Comfort V11 or higher	WinCC Comfort V11 or higher	WinCC Comfort V11 or higher	WinCC Comfort V11 or higher	WinCC Comfort V11 or higher	WinCC Comfort V11 or higher	WinCC Comfort V11 or higher
• / • / •	• • •	• • •	• • •	• • •	• • •	• • •
• / •	• / •	• / •	• / •	• / •	• / •	• / •

6AV2124-0UC02-0AX0 6AV2124-0XC02-0AX0

6AV2124-2DC01-0AX0 6AV2124-0GC01-0AX0 6AV2124-0JC01-0AX0 6AV2124-1DC01-0AX0 6AV2124-1DC01-0AX0 6AV2124-1DC01-0AX0 6AV2124-1DC01-0AX0 6AV2124-1DC01-0AX0 6AV2124-1DC01-0AX0 6AV2124-1DC01-0AX0 6AV2124-1DC01-0AX0

	Mobile Panels		
Po	ower and safety in your ha	nds	
2 nd Generation	2 nd Generation		
KTP700 Mobile KTP700F Mobile	KTP900 Mobile KTP900F Mobile	Mobile Panel 277 IWLAN V2 Mobile Panel 277 (F) IWLAN V2	
7" touch + key	9" touch + key	8" touch + key	Type of operation
Wide-screen TFT, 16 million colo LED backlight	rs,	TFT display (LCD), 64k colors	Display
7"	9"	7.5"	Size (in inches)
800 x 480	800 x 480	640 x 480	Resolution (W x H in pixels)
50,000	50,000	50,000	MTBF ⁶⁾ of backlight (in h)
248 x 172 248 x 195	307 x 201 307 x 224	diameter 290	Front dimensions (in m.m)
touch screen or membrane keypad	touch screen or membrane keypad	touch screen or membrane keypad	Control elements
8 (with LED) / –	10 (with LED) / –	18/-	Function keys (programmable) / system . 2ys
			Usa. le memory
12 MByte	12 MByte	6 MByte	User memory
12 MByte / 2 MByte	12 MByte / 2 MByte	1,024 KByte / 64 KByte	Memory for options / recipes⁴)
•	•	•	Message buffer
			Interfaces
-/-/1	-1-111	- / - / - / (• via IWLAN)	Serial/MPI/PROFIBUS DP/ PROFINET (Ethernet)
1/-	1 / –	•1-	USB host/USB device
- • •	-/•/•	-1 • 1 •	Slot for CF/multimedia/SD
		Functionality (whe	en configured with WinCC TIA Portal)
4,000 / 32	4,000 / 32	4,000/32	Alarm logging (number of alarms / alarm classes)
500	500	500	Process screens
2,048	2,048	2,048	Tags
2,040	2,040	2,040	rays
•		•	Vector graphics
• / f(t), f(x)	• / f(t), f(x)	• / • f(t)	Bar graphs / curve diagrams
•	•	•	Faceplates
300	300	300	Recipes
• •	•1•	• •	Archiving/Visual Basic Scripts
STATUS / CONTROL, diagnostics viewer	CTATUS, CONTROL,	STATUS / CONTROL	Programming device functions
			Connection to controller
• -	• -	• •	SIMATIC S7/SIMATIC WinAC
• / •	•/•	- / • (Safety variant from Service Pack 3 for SIMATIC WinCC flexible	SINUMERIK/SIMOTION
•/•	• / •	2008) - <i>l</i> -	Allen Bradley/Mitsubishi
• / •	• / •	-1-	Modicon/Omron
			Engineering software
WinCC Comfort V13 SP1 or higher	WinCC Comfort V13 SP1 or higher	WinCC Comfort V11, WinCC flexible Standard, Advanced or higher	Configuration
			Options, applications
• • •	• • •	• / • / = 5)	Sm@rtServer/Audit/Logon
-1•	-1•	• •	OPC Server/Internet Explorer
6AV2125-2GB03-0AX0 6AV2125-2GB23-0AX0	6AV2125-2JB03-0AX0 6AV2125-2JB23-0AX0	6AV6645-001-0AX1	Article No.*)