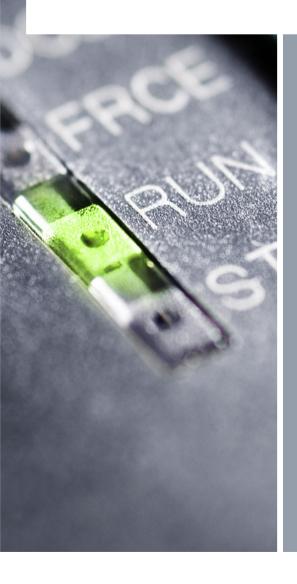
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SIMATIC HMI Panels General Overview

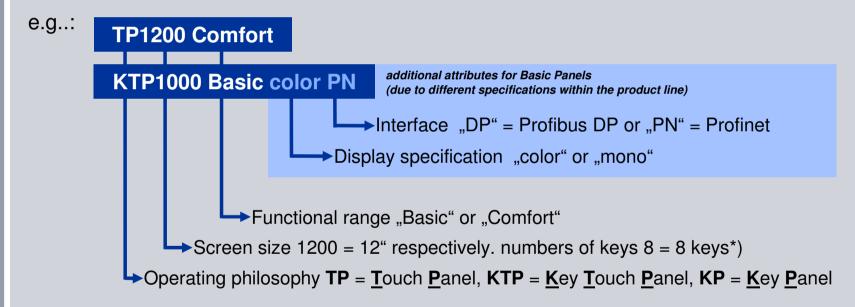
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SIMATIC HMI Panels Uniform Naming SIMATIC HMI Panels

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By the uniform naming of the SIMATIC HMI Panels the most important technical features of the equipment are immediately recognizable.



*) additional differentiating factor Safety Functionality **F** = **F**ailsafe (z. B. KP8F)



SIMATIC Basic Panels with Basic Functions

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Basic Panels

- > For compact applications
- ✓ Basic HMI functionality
- ✓ Basic service concept
- ✓ Functional consistency

programmable with :WinCC flexible 2008 or

WinCC 10.5-12 (KP300 from WinCC V11)

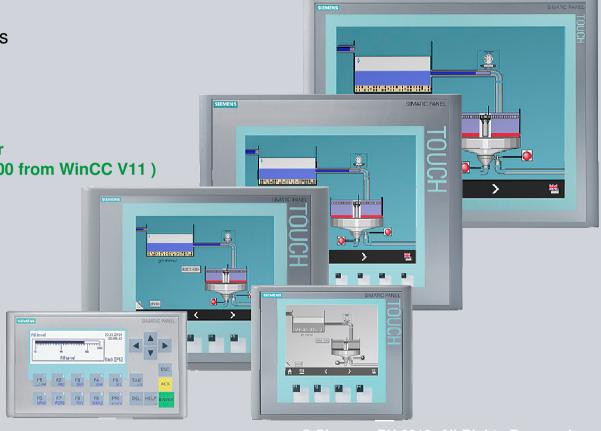
Note:

In comparison with the Comfort panels e.g.:

- no historical data
- no scripts
- no reports (no printer)
- no Alarm S or Alarm D
- no direct keys
- no remote operating
- * no E-mail dispatch
- lower feature table
- * not all objects available
- restricted functional range (e.g. at graphics)

2013-01-04

HMI Update 2013



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SIMATIC Basic Panels KP300 Basic mono PN

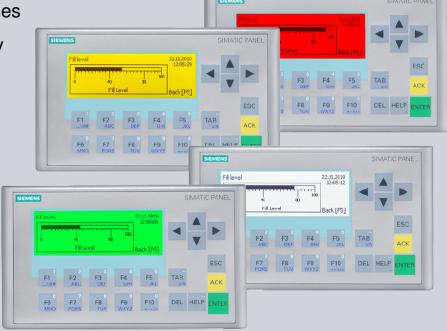


Characteristics:

- > Free selectable color LED-backlight (white, green, red, yellow)
- > The customer can select the color he wants to use as standard backlight color
- > These colors can be assigned e.g. to user alarms Classes
- Numeric Keypad with new intuitive alphanumerical entry (Cell phone)

Note:

> Available in WinCC V11/12 only!





SIMATIC Comfort Panels for Extended Requirements

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Comfort Panels

- For demanding applications
- Comprehensive functional enhancement
- ✓ Maximum performance
- √ Wide screen display
- ✓ Innovative service concept
- ✓ Functional consistency
- ✓ Fast migration from Basic to Comfort Panels



Note:

➤ Available in WinCC V11 / 12 only!



SIMATIC Mobile Panels for Mobile Operation

- For mobile application
- Robust and IP65 all around
- Powerful and high functional range
- Cable-based or IWLAN
- Cable-based for DP or PN available
- Screen size: 6", 8", 10"
- Enabling buttons (with cable-based and IWLAN F)
- Available with Stop Button resp. Emergency Stop Button (IWLAN F-version), Hand wheel, Key-operated switch, Illuminated pushbutton
- Pluggable in operation (cable-based)
- IWLAN devices available as: Non-F-, F- and RFID-version
- IWLAN devices (V2) are supporting iPCF (Rapid Roaming)
- F-devices for Failsafe applications

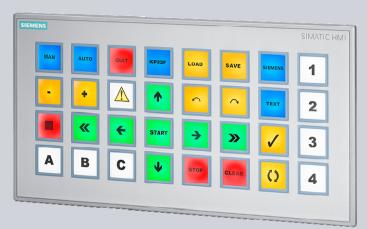






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- Engineering with Step7
- Control is made by PLC program (directly in the address area)
- Colors about byte or function blocks controllable
- red, green, blue, yellow, white, off
- Brightness adjustable
- Integrated 2-Port PROFINET-Switch
- digital, free configurable I/Os onboard
- The F-Versions have additional Safety-Inputs
- 24-V loop-through power connector





KP32F PN and Panels KP8(F)





SIMATIC IPC, Box PC, Flat Panel and Thin Client Panel

- PC Hardware as platform for WinCC Runtime
- Robust and low-maintenance for industrial use
- Designed for 24 h continuous operation
- Individually configurable
- High performance for applications with high requirements
- New: Nanobox / Nanopanel PC
- Large Portfolio ...





Customized





Direct Comparison HMI Basic & Comfort Panels & HMI IPC277D Panel PC



Criterion	HMI Basic Panel HMI Comfort Panels		HMI IPC277D Panel PC	
Applications	Machine-oriented HMI			
Additional applications			Controlling, measuring, regulating, data processing and archiving, PC applications	
Engineering	WinCCV11/12 Basic or WinCC flexible 2008	WinCC V11/12 Comfort	PC, PC operating systems, as required: WinCC Advanced, WinAC RTX, C/C++, Visual Basic, etc.	
Ready to use	No further steps required	No further steps required	SW bundles preinstalled; license key must be transferred	
Certificates	CE, UL	CE, UL, shipbuilding FM Class I Div. II, ATEX 2/22	CE, UL, shipbuilding	
Configuration option	One order number for each display size and interface	One order number for each display size	Configurable	
Delivery time (from ramp)	Stocked product	Stocked product	Built-to-order (15 working days)*	
Spare parts/repair	Replacement or repair	Replacement or repair	Repair*	
Service, availability of spare parts	10 years	10 years	5 years	



Direct Comparison Functional differentiation (1)

Criterion	HMI Basic Panel	HMI Comfort Panels	HMI IPC277D Panel PC	
Open	Closed/ no WinCC V11 /12 SW options	Closed/ WinCC 11 /12 SW options	Open WinCC SW options Standard PC applications Integration of customer applications	
Expandable (PC cards, memory)				
Front sides	4:3, monochromatic or 256 colors	Uniform widescreen front sides: High resolution, 16 million colors, large viewing angle, LED backlight; dimmable from 0 to 100%		
Display sizes	3" – 15" ; 4:3	4" - 22" widescreen	7" - 17" widescreen	
Type of operation	KP300 keys, touch and keys from 4" to 10", touch 15"	Touch and Keys (4") Touch or keys (7"to 22")	Touch	
Direct keys		DP and PN direct keys (touch as well)		
Portrait installation	Possible for 6"	Possible for all touch devices		
Front-side interface			USB for 15"/17"	
Interfaces (rear), fieldbus on board	1x PN (3", 4", 6", 10" & 15") or 1x DP (6" & 10")	2x 10/100 Mbit/s Ethernet / PROFINET with RT; 1x RS485/422/PROFIBUS; 3x USB V2.0 (1 of which is a USB device) 4", see slide 37	2x 10/100/1000 Mbit/s Ethernet / PROFINET with RT; 3x USB V2.0; 1x COM (RS232)	
Drives		1x SD slot (data), 1x SD slot (for servicing)	1x CompactFlash (accessible) or solid-state drive (internal)	



Direct Comparison Functional differentiation (2)

Criterion	HMI Basic Panel	HMI Comfort Panels	HMI IPC277D Panel PC	
Operating system	Linux based	Windows CE	Without Windows Embedded Standard 7 Windows 7 Suitable for Linux	
Virus protection	Not susceptible to viruses	Not susceptible to viruses	Typical PC virus protection recommended; BeSy + application protection via EWF	
HMI SW runtime	WinCC flexible 2008 or WinCC 10.5 and higher KP300 from WinCC V11	WinCC V11		
HMI quantity structures (tags)	Graduated	Graduated	Configurable	
HMI retentivity messages	Retentive message buffer			
HMI engineering	From WinCC basic	From WinCC comfort From WinCC advanced		
Software controller			WinAC RTX (F) optional	
Environment	Front side: IP65 Operating temperature: 0 to 50 ℃			
Powerfail concept	Non-volatile	Non-volatile Protection against voltage to BeSy and application so possible via write protection optional retentive data is		
System diagnostics		SIMATIC system diagnostics viewer		
Additional HW diagnostics			IPC hardware diagnostics: Temperature, mass memory, operating hours counter	



Direct Comparison Differences in system limitations

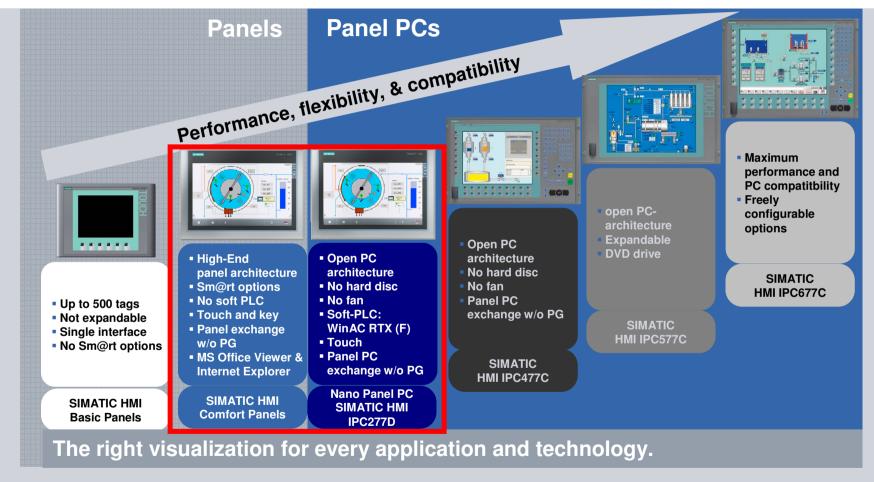


	Basic Panels 3" & 4"	Basic Panels 6", 10" & 15"	Comfort Panels 4"	Comfort Panels 7" - 12"	Comfort Panels 15"-22"	Nanopanel PC IPC277D 7"-19"
Tags	250	500	1024	2048	4096	128 - 4096
Alarms	200		2000	4000	6000	4000
Recipes	5		100	300	500	1000
Screens	50		500		750	500
Archives			10	Ę	50	100
Scripts			50	100	200	
Online languages	5		32			
Sm@rtClients			2	3		
Viewer/multimedia			Internet Explorer, PDF and Excel viewer, Media Player PC-compatibility		PC-compatibility	

The Comfort panels are clearly positioned as a high-end panels.



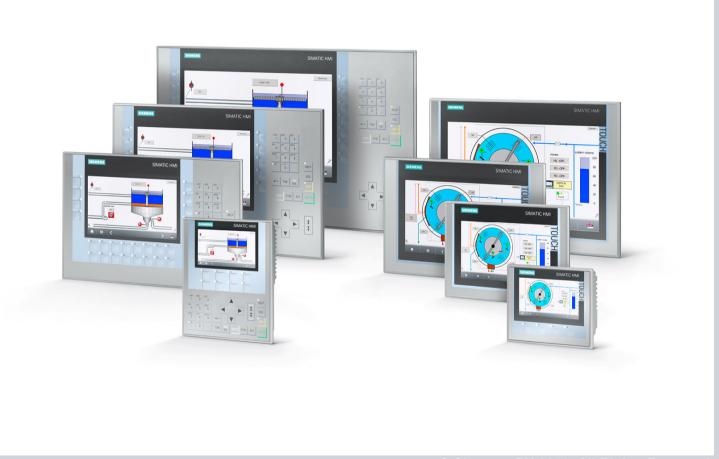
Direct Comparison Differences in system limitations



SIMATIC Comfort Panels

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- KP400 Comfort
- KP700 Comfort
- KP900 Comfort
- KP1200 Comfort
- KP1500 Comfort*
- KTP400 Comfort
- TP700 Comfort
- TP900 Comfort
- TP1200 Comfort
- TP1500 Comfort*
- TP1900 Comfort*
- TP2200 Comfort*



* Release since April 2012

2013-01-04

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SIMATIC Comfort Panels Technical Details



	4"W	7"W – 12"W	15"W - 22"W	
Widescreen displays	High resolutions, 16 mil. colors, large viewing angle, LED backlighting			
High performance	More than twice as fast as the respective predecessor			
Enhanced functionality	Archives, scripts, IE, PDF/Excel/Word viewer, 0 - 100% dimming			
New service concept	"Panel exchange without PG", USB device interface			
Onboard interfaces PROFINET	1 PN	2 PN (Switch)	2 PN (Switch) und 1 PN	
PROFIBUS	1 PB	1 PB	1 PB	
USB	1 Host, 1 Device	2 Host, 1 Device	2 Host, 1 Device	
others	2 SD	2 SD, Audio		
Aluminum casing	Aluminum front-side casings			
Portrait installation	Portrait installation for all Touch Panels to 22"			
Improved data entry	Push Button Panels with new cell phone-type data entry mechanism			

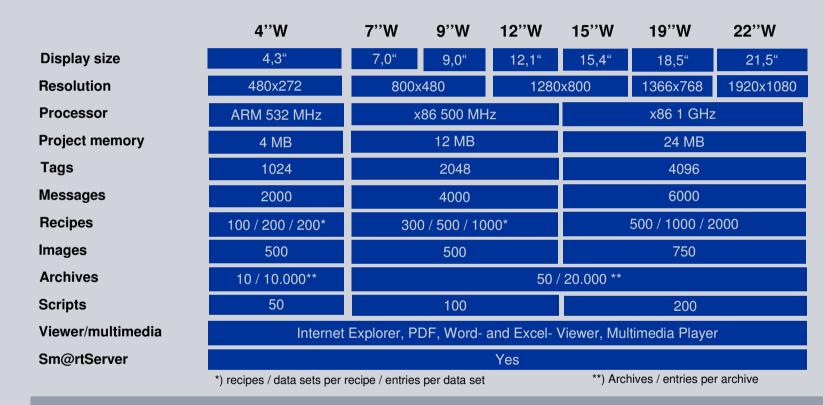
The Comfort panels offer high-end functionality down to the 4" device.

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SIMATIC Comfort Panels Technical Details

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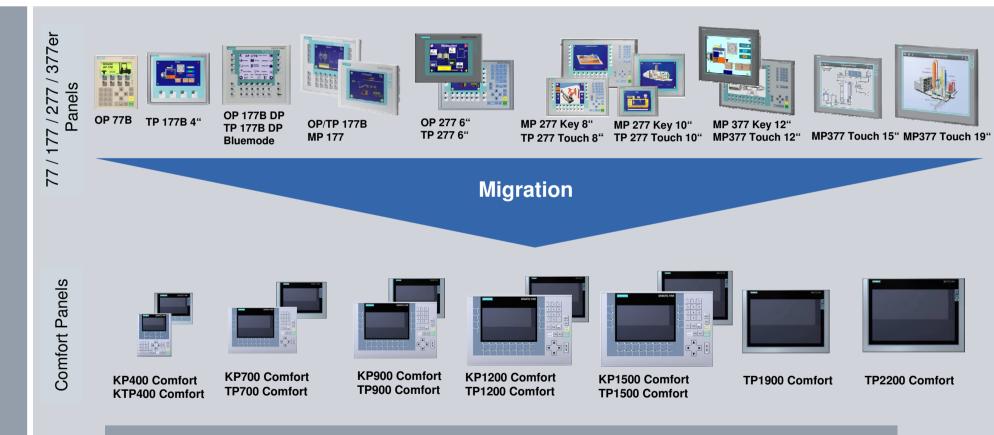
The Comfort panels offer high-end functionality down to the 4" device.

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SIMATIC Comfort Panels Migration 77/177/277 to Comfort Panels

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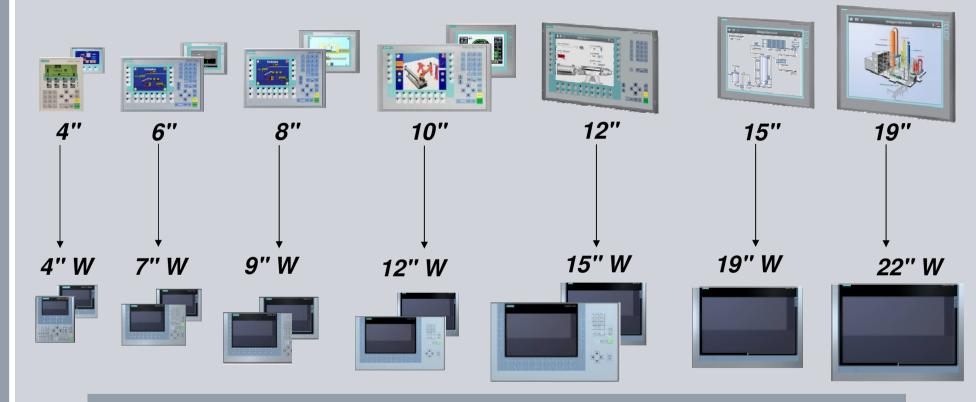
The SIMATIC HMI Comfort Panels are the successors of OP 77B, the xP 177B series, the MP 177; xP 277 series and the MP377- series

eserved



SIMATIC Comfort Panels Migration from 4:3 to the Widescreen aspect ratio

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The display area of Widescreen displays with the same diagonal as a 4:3 aspect ratio is lower → migration to larger sizes is suggested.

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SIMATIC Comfort Panels Installation Compatibility and larger display area

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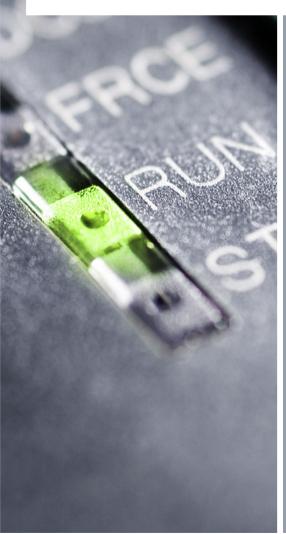


Result of accurate weighting between small footprint (optimized dimensions) and compatibility of mouting cutout.

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Thank you for your attention!



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