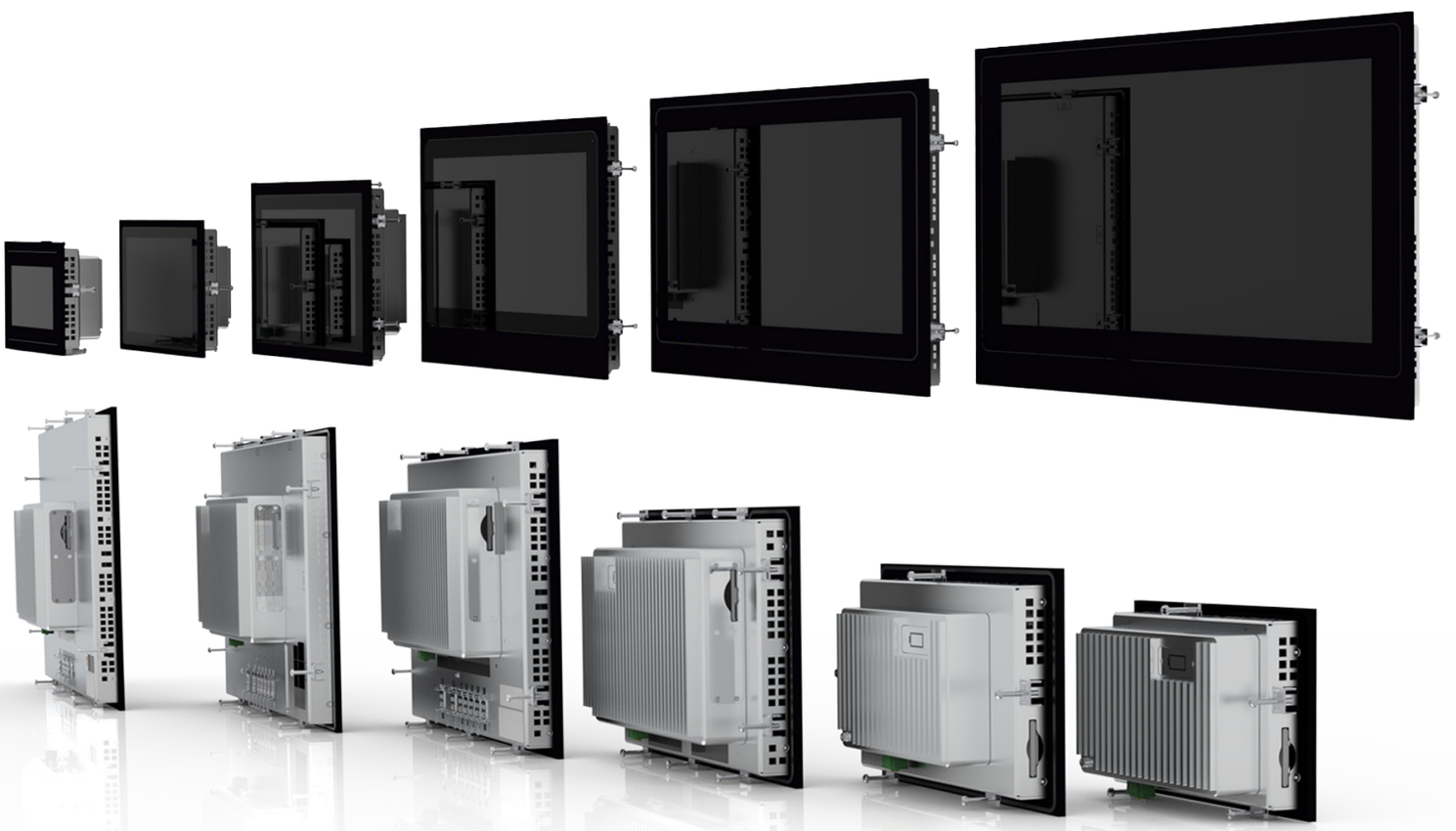
notion.S – Comfort Panels

functionally compatible with SIMATIC HMI Comfort Panels TP700 / TP900 / TP1200 / TP1500 / TP1900 / TP2200



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TRsystems GmbH is a subsidiary of TR Electronic GmbH.

From A to Z – industrial perfection with notion.ABC

With notion.ABC, you can implement your industrial HMI and automation applications at the highest level—tailor-made, robust, and future-proof.

At the TRsystems site in Trossingen, we develop, design and manufacture our systems entirely in-house. This enables us to guarantee the highest quality, flexibility, and long-term availability—for applications where standard solutions reach their limits.

Our solutions prove their strength especially in extreme operating environments: contamination, temperature stress, vibration, shock, EMC, ESD – and far beyond.

Even in less spectacular applications, our systems impress with their reliability, efficiency and durability. With state-of-the-art CPU technology – from ARM® to Intel®, Atom® to 14th generation Intel® Core™ processors – you are already equipped today for the demands of tomorrow.

Our platforms stand for technological security and investment protection – with long-term availability of over 10 years.

Thanks to the wide variety of models, our systems can be seamlessly and individually integrated into your machine and plant concepts.

State-of-the-art
HMI Comfort Panels from TRsystems
– give your production facilities a new future

The discontinuation of classic
SIMATIC HMI Comfort Panels poses major challenges for many operators of industrial facilities.

Plant downtime, costly electrical and mechanical conversions, or even the development of new HMI and control systems to replace those that have proven themselves over decades often seem unavoidable.

But that doesn't have to be the case.

The functionally compatible
notion.S Comfort Panels from TRsystems
offer the ideal solution.
They enable existing plants and machines to
continue to operate reliably – without costly software adaptations and without mechanical changes.

Thanks to their
high functional and form factor compatibility,
notion.S Comfort Panels can be used quickly, safely and precisely as replacements for discontinued
SIMATIC HMI Comfort Panels.

Familiar HMI functionalities, operating concepts and existing visualisations are retained in their entirety –
while at the same time offering state-of-the-art device technology and long-term future-proofing.

notion.S - Comfort Panels
give your systems more than just a replacement
– we give them a future.

notion.S - Comfort Panels
– because every machine deserves to keep running.

Your advantages:

_ **Functionally compatible**
with SIMATIC HMI Comfort Panels

_ **No reprogramming necessary**

_ **Mechanically compatible –**
genuine plug-and-play in the control cabinet

_ **Minimal downtime**

_ **Long-term availability**
& state-of-the-art device technology

Features:

_ Touchscreen panels with INTEL® x86 CPU

_ For control cabinet mounting

_ Display: 7 to 21,5 ich

_ Prepared for
HMI WinCC Runtime Advanced V17

_ Prepared for
HMI WinCC Unified PC Runtime (Server & Client)

_ Long-term available technology
(> 10 years)

Determine your HMI – and the future of your electrical, service and plant planning

notion.S - Comfort Panels Panels are based on state-of-the-art CPU technology and suitable operating systems to effectively minimise cyber risks.

They are operated via robust, multi-finger-capable glass touch technology with excellent haptics.
Factory-fitted, replaceable anti-reflective films ensure a pleasant, glare-free view at all times.

notion.S - Comfort Panels
are suitable as replacement systems for:
_ SIMATIC HMI Comfort Panels
_ SIMATIC HMI Basic Panels
_ SIMATIC IPC IPC477E
_ SIMATIC IPC IPC277G
_ and many more

Selectable at startup, you can flexibly choose between the classic
SIMATIC HMI WinCC Runtime Advanced V17
and the modern
SIMATIC HMI WinCC Unified V20/V21 PC Runtime
during the boot process.

Thanks to this comprehensive support, there is no need for the costly retrofitting of existing control cabinets or operator consoles, as would be required when switching to **SIMATIC HMI Unified Comfort Panels.**

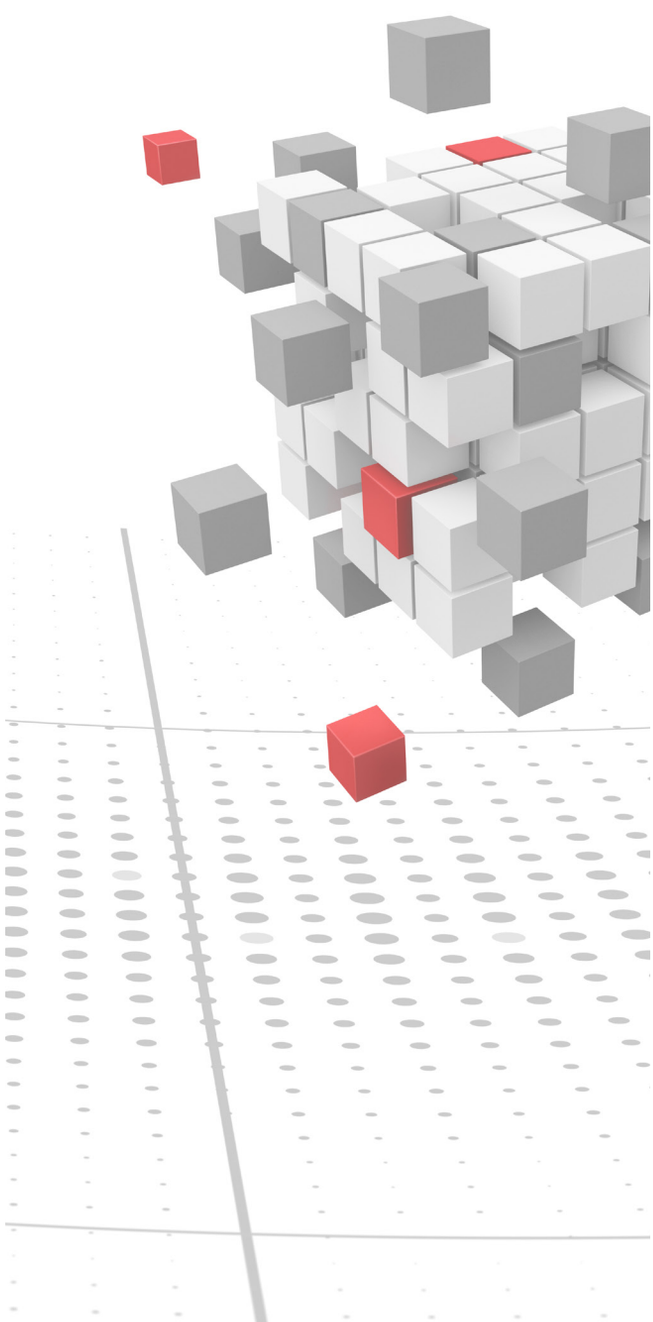
For maximum flexibility, the
notion.S Comfort Panels have additional drives for storage media:

_ A **CFast card slot** for storage capacities of up to 480 GB

_ Ideal for easy transferring **SIMATIC WinCC PowerTag licences** when replacing devices

Intelligent interface adapters enable the operation of all PLC generations – from **SIMATIC S5** (AS511) to **SIMATIC S7** (MPI) – in conjunction with the **SIMATIC HMI WinCC Runtime Advanced V17 .**

notion.S - Comfort Panels combine proven **SIMATIC control** and **HMI Panels** from over 30 years with future-proof technology
_ for maximum investment security and sustainable modernisation.



SIMATIC HMI Comfort Panels (Display resolution)	TRsystems Item number	Comparable SIEMENS Item number
TP700 (WVGA)	778-11173	6AV2124-0GC01-0AX0
TP900 (WXGA)	778-11174	6AV2124-0JC01-0AX0
TP1200 (WXGA)	778-11164-20	6AV2124-0MC01-0AX0
TP1500 (WXGA)	778-11965-20	6AV2124-0QC02-0AX2
TP1900 (HD)	778-11167-20	6AV2124-0UC02-0AX1
TP2200 (Full HD)	778-11169-20	6AV2124-0XC02-0AX1

Licence for SIMATIC WinCC Runtime Advanced PowerTags	TRsystems Item number	Comparable SIEMENS Item number
WinCC Runtime Advanced **128**, V17 DL	68010231	6AV2104-0BA07-0AH0
WinCC Runtime Advanced **512**, V17 DL	68010233	6AV2104-0DA07-0AH0
WinCC Runtime Advanced **2048,** V17 DL	68010234	6AV2104-0FA07-0AH0
WinCC Runtime Advanced **4096**, V17 DL	68010235	6AV2104-0HA07-0AH0
WinCC Recipes+Logging for **RT Adv., LK** DL	68010246	6AV2107-0HA00-0BH0

Adapter for SIMATIC S7 / S5 Controllers without LAN interface	TRsystems Item number
MPI adapter IBH Link S7++	778-91882
AS511 Adapter IBH Link S5++	778-91881

notion.S - Comfort Panels #best-of



Fig. notion.S – Comfort Panels

- _ Touchscreen panels with INTEL® x86 CPU
- _ for control cabinet installation
- _ Display: 7 to 21.5 inches
- _ Pre-installed
  SIMATIC HMI WinCC Runtime Advanced V17
  Unified PC V20/21
- _ Long-term available technology (> 10 years)

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Technical data

Model	TP700	TP900	TP1200	TP1500	TP1900	TP2200
Display	178 mm 7 inches (WVGA)	256 mm 10.1 inches (WXGA)	307 mm 12.1 inches (WXGA)	391 mm 15.4 inches (WXGA)	470 mm 18.5 inches (HD)	546 mm 21.5 inches (Full HD)
CPU	CPUa7: ATOM x7433RE					
RAM	8 GB					
Standard hard drive	120 GB					
Additional drive for storage media	CFast card slot					
Cooling system	Fanless					
Operating temperature	0 °C to +50 °C					0 °C to +45 °C
Operating system	Windows 11 IoT					
Features	Prepared for SIMATIC HMI WinCC Runtime Advanced V17 Prepared for SIMATIC HMI WinCC Unified V20/V21 PC Runtime					
Extras	Anti-glare protective film Mounting clips Cable strain reliefs 'Power Tag' licence					
Optional	UPS (uninterruptible power supply)					

Table: notion.S – Comfort Panels # best-of

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Dimensions

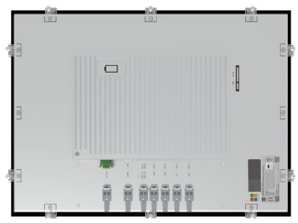


Fig. TP1900 Rear view

Model	Dimensions [mm]			Cut-out dimensions [mm]			TRsystems item number
notion.S - Comfort Panels	x1	y1	z1	x2	y2	z2	
TP700 (WVGA)	214	158	74	196	140	2–6	778-11968
TP900 (WXGA)	274	190	74	250	165	2–6	778-11969
TP1200 (WXGA)	330	241	74	310	221	2–6	778-11164
TP1500 (WXGA)	415	310	74	396	291	2–6	778–11165
TP1900 (HD)	483	337	74	465	319	2–6	778-11167
TP2200 (Full HD)	560	380	74	542	362	2–6	778–11169

Table: Structural Dimensions



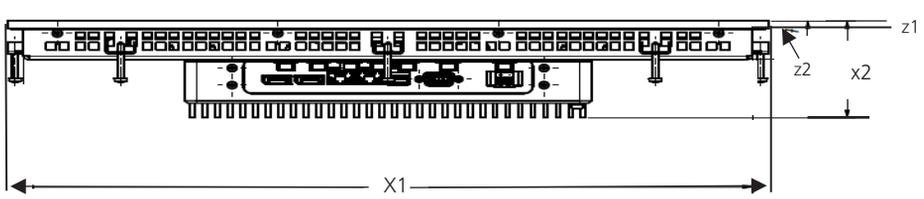
Fig. TP1900 Bottom view



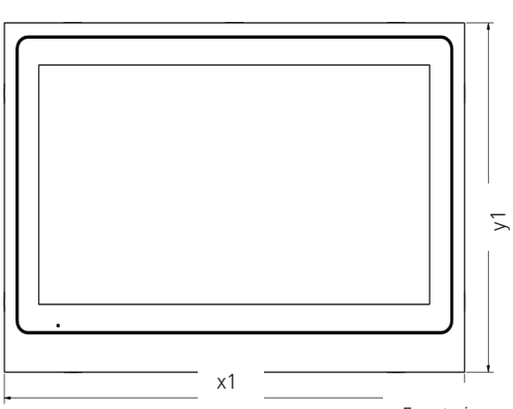
Fig. TP1900 Interfaces

Optional accessories	TRsystems item number
notion.S mounting clips (set = 20 pcs.)	778-90247
notion.S cable strain reliefs (set = 3 pcs.)	778-91858
notion_ 7 Anti-reflective protective film	778-90358
notion_10,1 Anti-glare screen protector	778-90250
notion_12,1 Anti-reflective screen protector	778-90341
notion_15,x Anti-reflective protective film	778-90251
notion_18,5 Anti-reflective protective film	778-90248
notion_21.5 Anti-glare screen protector	778-90252

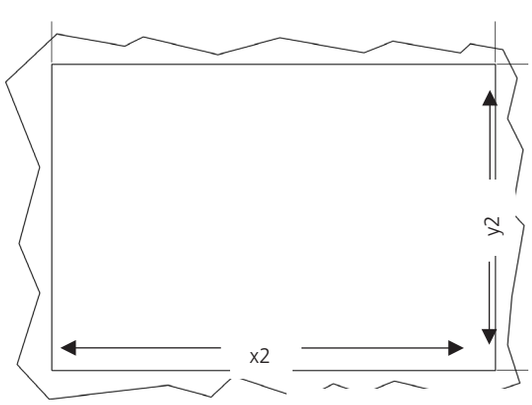
Table: Optional accessories



Height & Width



Front view



Cut-out dimensions

TRsystems GmbH
Eglishalde 16
D - 78647 Trossingen

Tel. +49 7425 228 - 470
Fax +49 7425 228 - 34

sales@trsystems.de
www.trsystems.de

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Subject to technical and design changes.
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