

PC100 – The modular Ex-PC

The intelligent combination of Ex-protection classes

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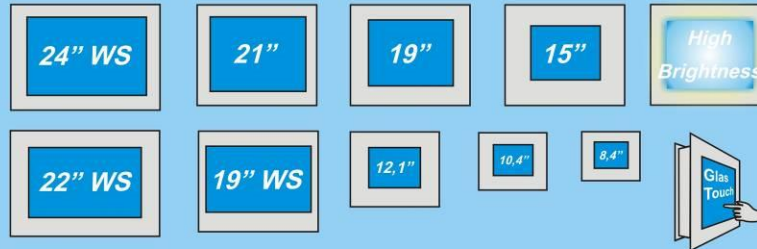
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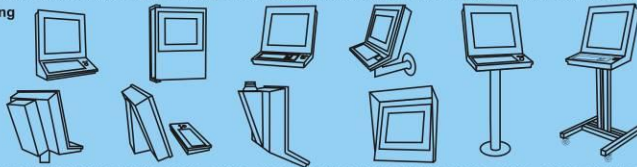


PC100 Remote Computing
KVM transmission
Copper or Fibre Optic



PC100 Local Computing
Embedded CPU
Copper, Fibre Optic
or WLAN

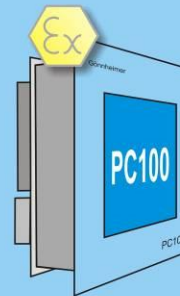
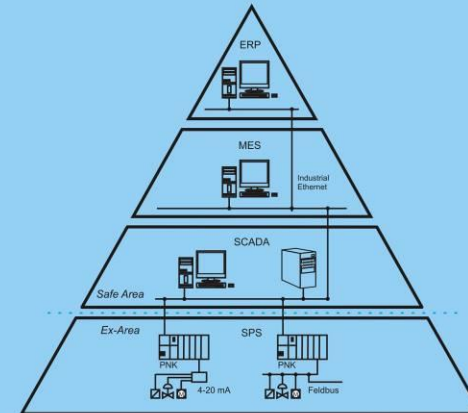
Housing



Keyboard, Pointing Device



Options



Panel PC



KVM Remote Terminal

The open, flexible and modular PC100 concept offers highest application flexibility, today and in the future! PC100 in 8.4" up to 24" for the Ex-Zones 1, 2, 22 or non-Ex area.

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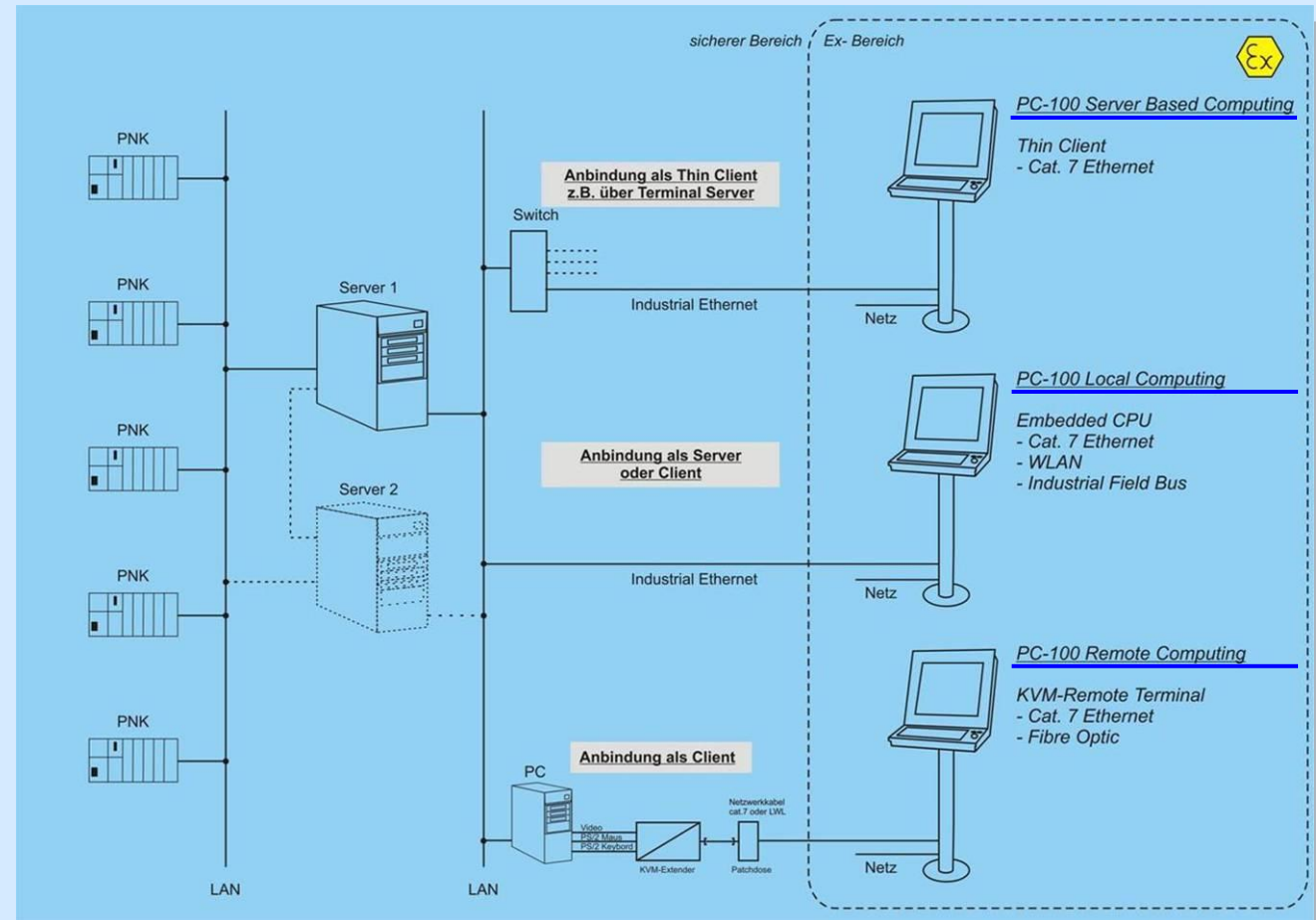
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- The open and modular PC100 system can be realized in three different concepts.



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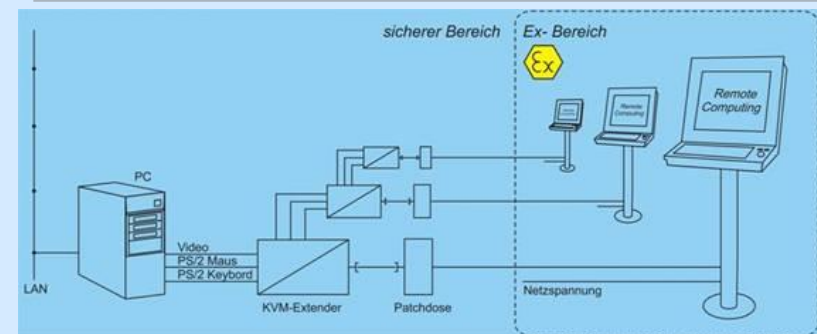
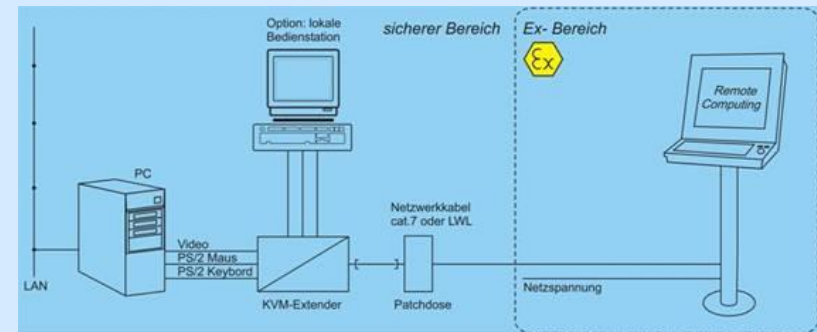
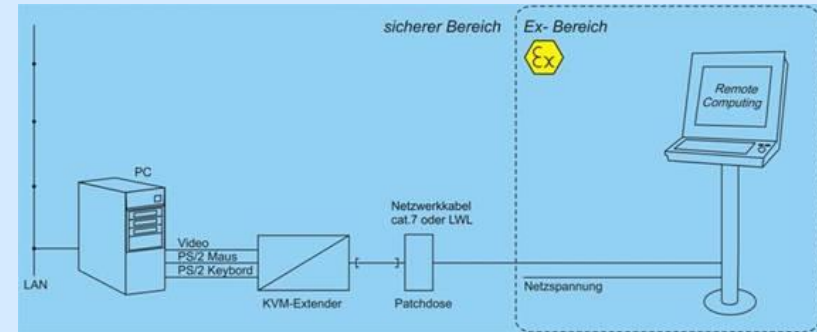
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- PC100, [Remote Computing](#). Intelligence and application in safe-area; KVM-extender, using Cat.5/7 line or fibre optic.



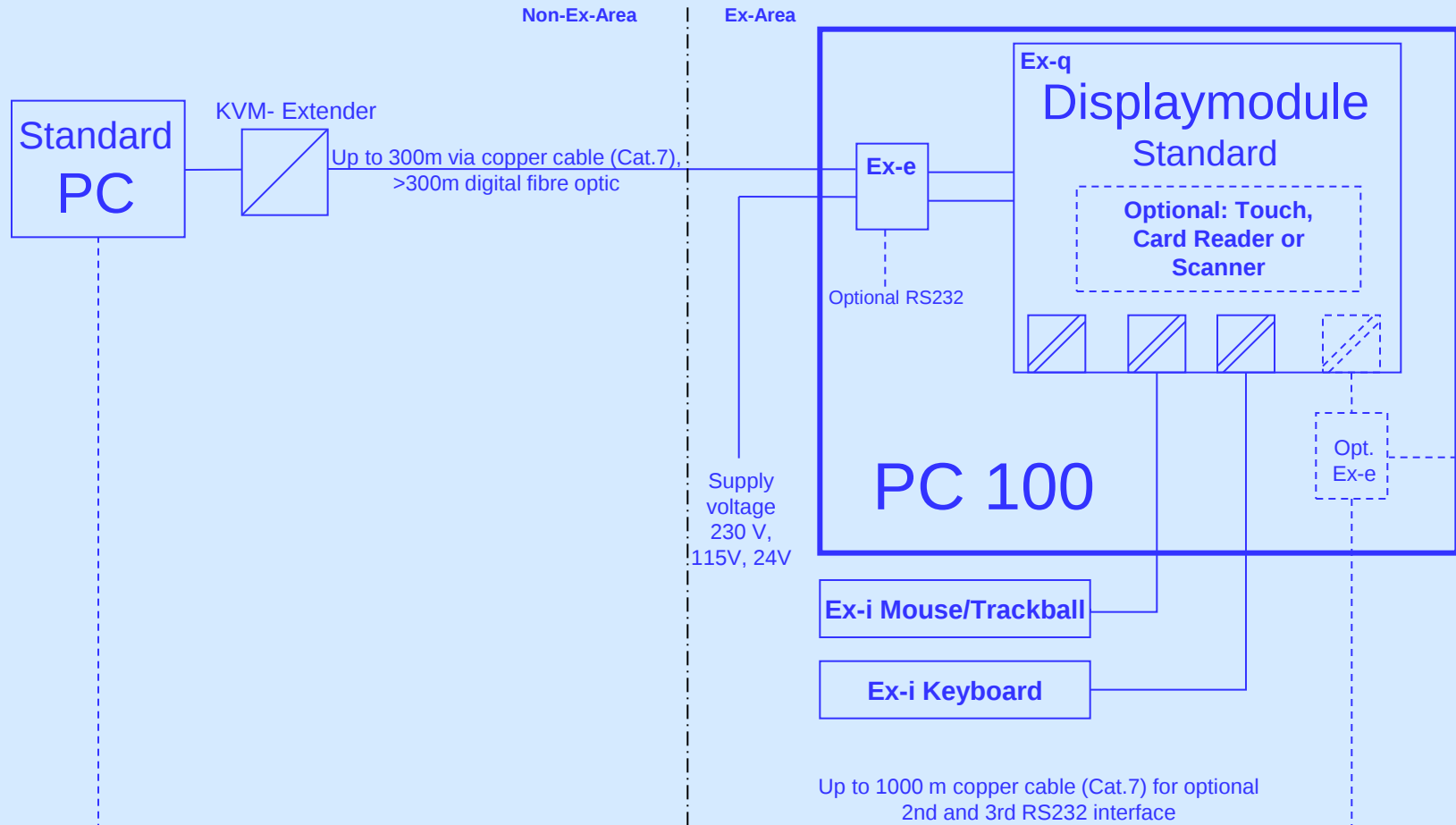
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- The open and modular PC100 system. Highest flexibility by intelligent combination of different Ex-protection classes.

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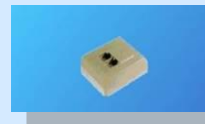
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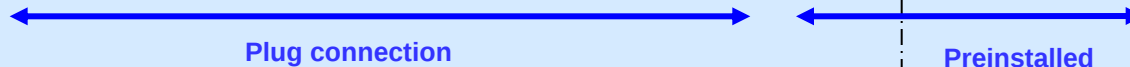
- The scope of delivery covers all required components for the installation and start-up. The pictures below show the scope of delivery of the KVM Cat.7 application.



or



or



Plug connection

Preinstalled

NonEx-Area

Ex-Area



- **Provided by customer –**
PC, Supply voltage for
PC100.



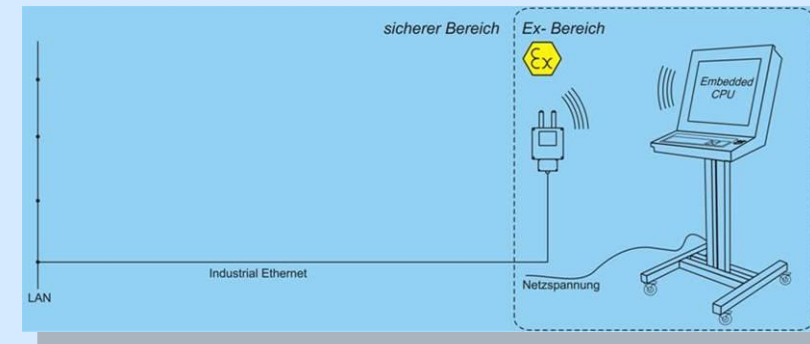
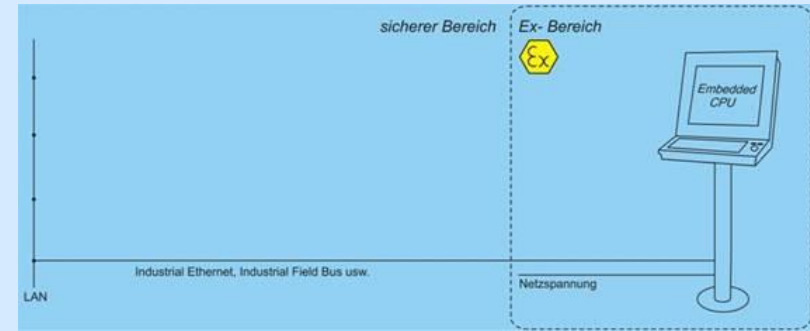
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- PC100, Local Computing Embedded CPU – Intelligence and application on site, connection to peripheral components via Industrial Ethernet or Industrial Field Bus.

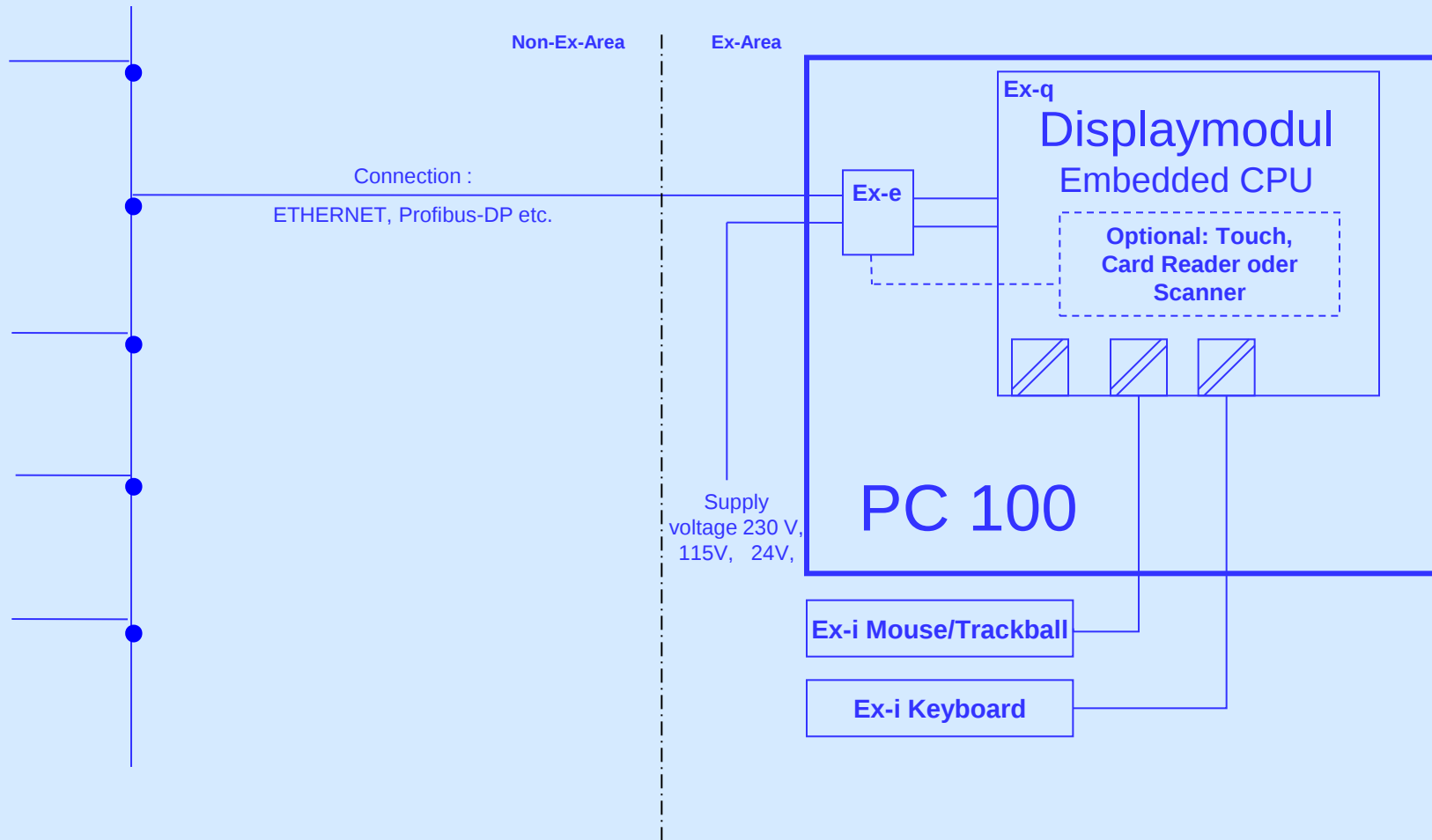
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- The open and modular PC100 system with intelligence directly inside hazardous area.

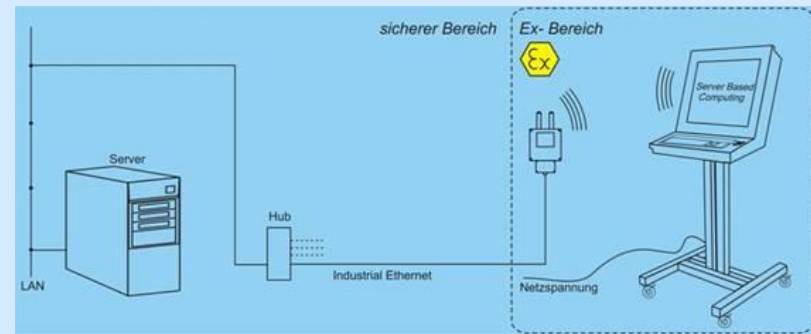
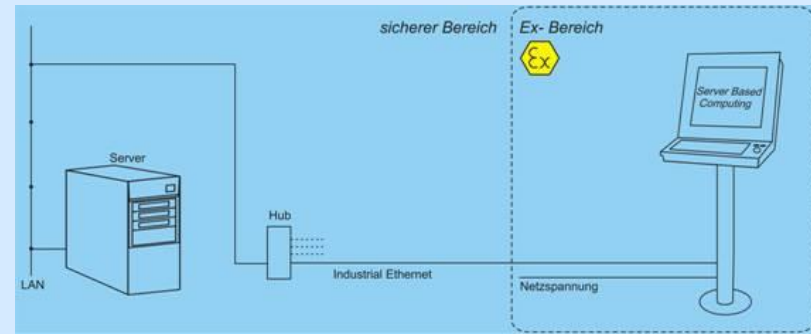
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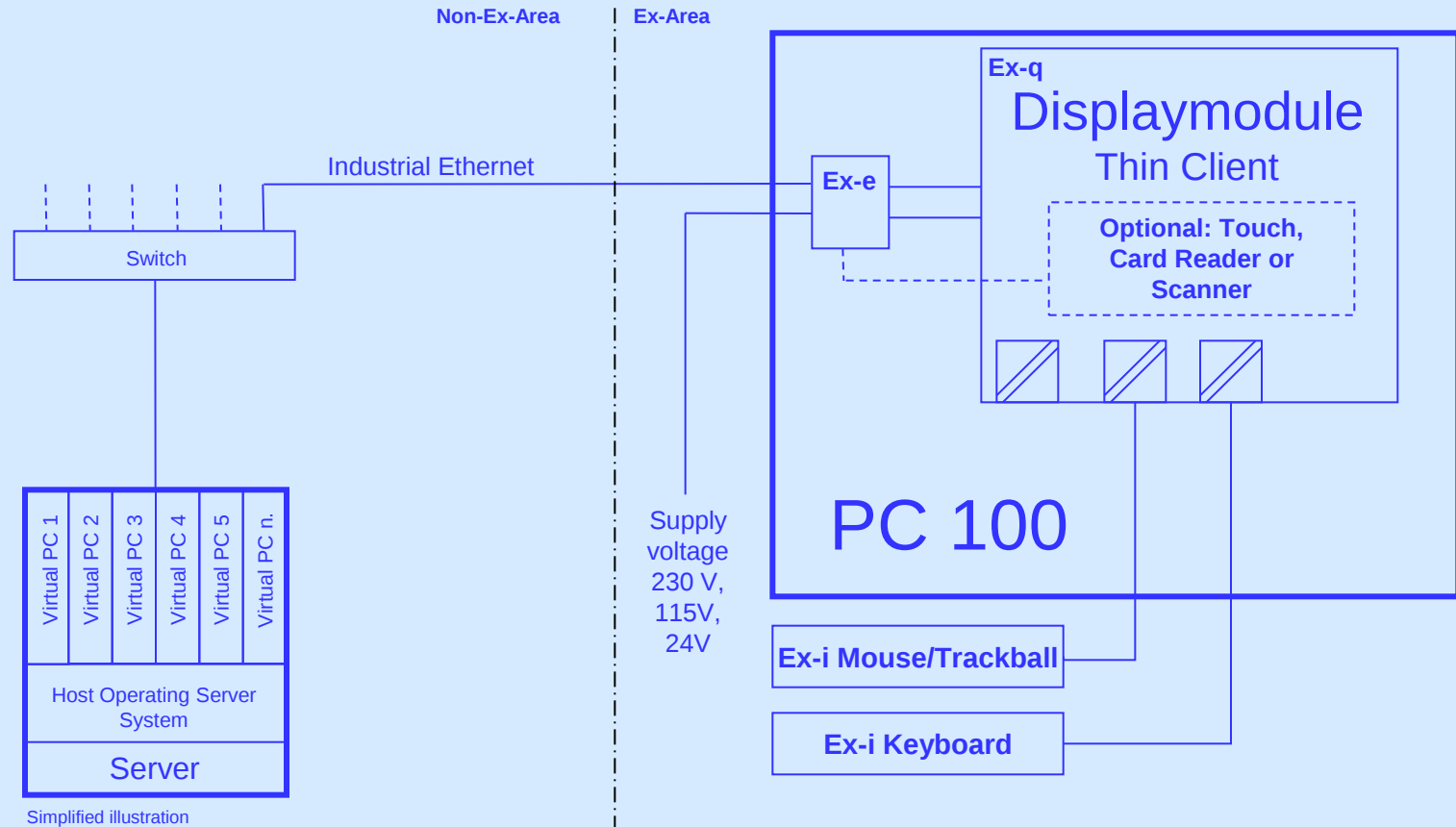
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- PC100, Server Based Computing Thin Client – Intelligence on site, server based application, connection to peripheral components via Industrial Ethernet or Industrial Field Bus.

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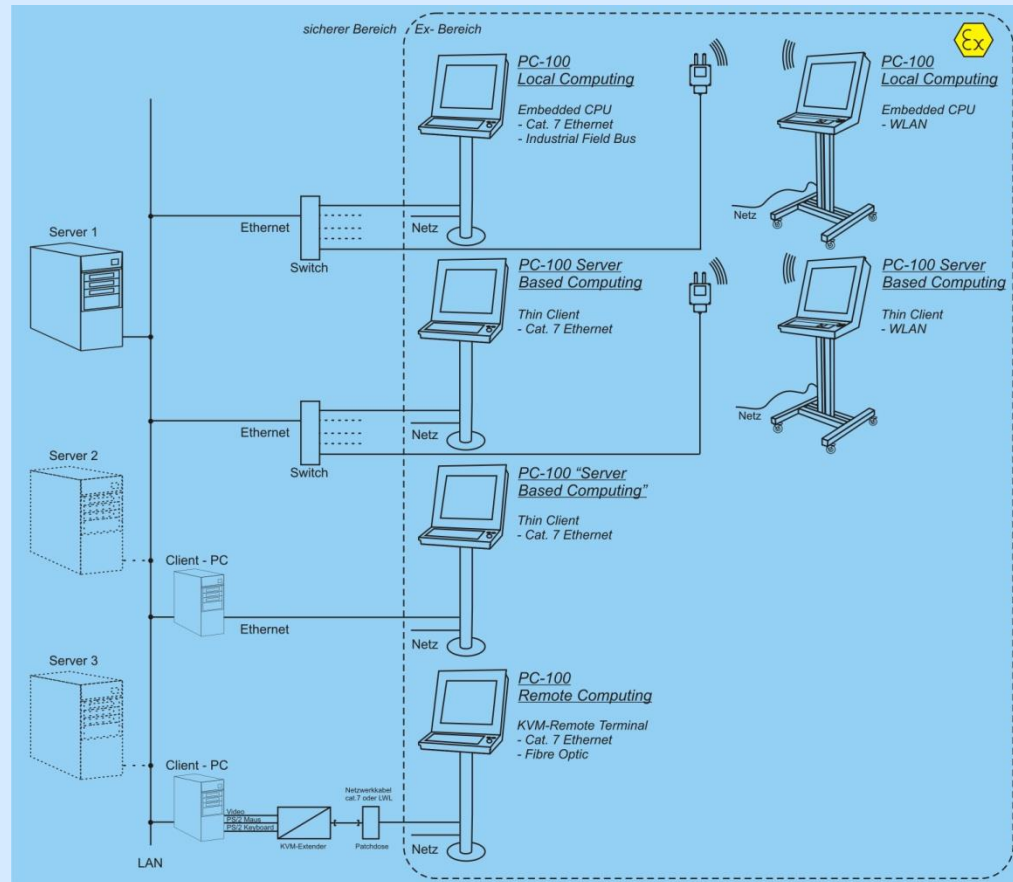
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- PC100 Computing possibilities.
Independent from your preferred computing technology, you always get your application optimized design, using the PC100 concept.



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PC100 housing space optimized



PC100 standard housing



PC100 ergonomic housing



PC100 housing for display module



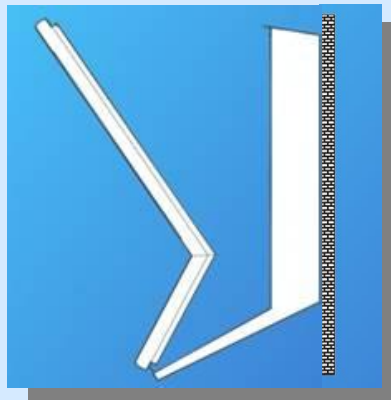
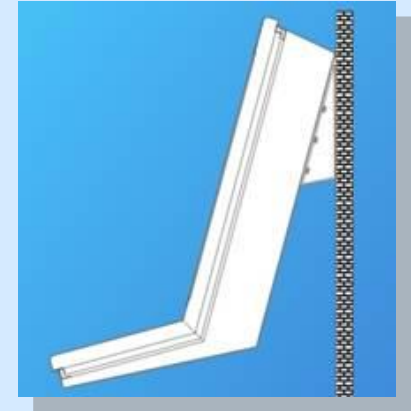
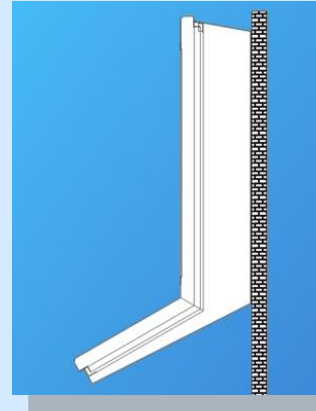
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- PC100, easy mounting through tall and front sided access to inner housing



The PC100 can always be opened from the front side



PC100, V2A, Standard, direct wall mounting approx. 360 mm deep



PC100, V2A, ergonomic Wallmounting corresponding to NAMUR-guideline, approx. 530 mm deep



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- PC100, turnable wall mounting in ergonomic design, 15° inclined or at right angle (e.g. in tight space conditions).



PC100 19", V2A, turnable, ergonomic, Industry mouse



PC100 19", V2A, turnable, right angle, Emergency-Stop



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- PC100 with fixed or turnable mounting to floor or ceiling, e.g. with pillar or tube.

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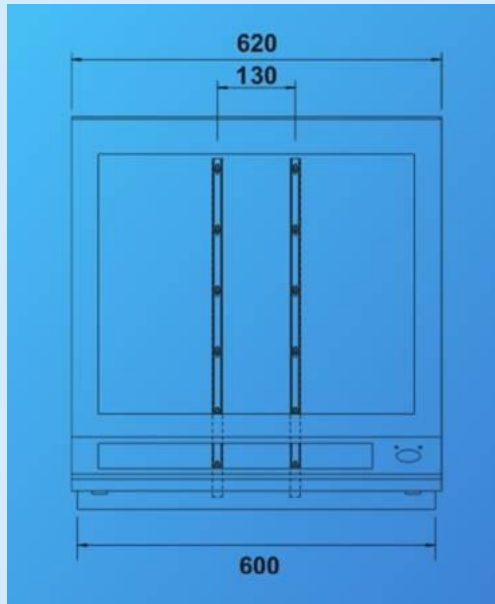
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- PC100 for mobile operation.

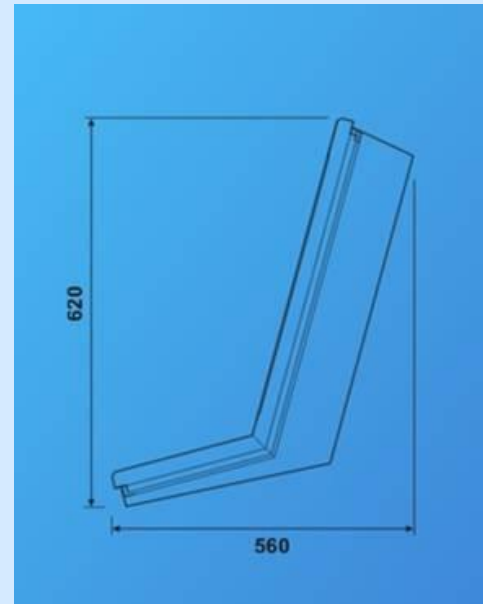
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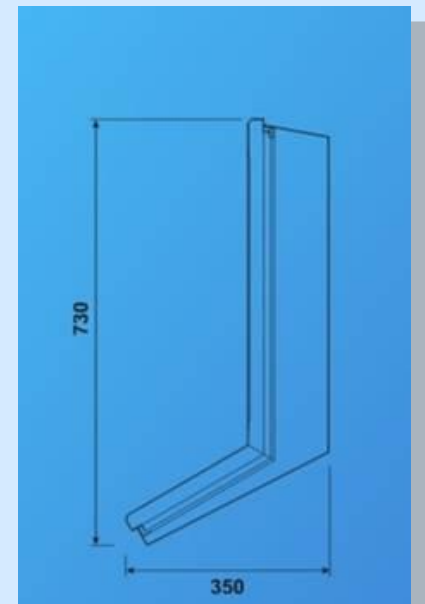
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PC100, approx. 620 mm wide



PC100, ergonomic mounting,
approx. 620 mm high, 560 mm
deep



PC100, direct wall mounting,
approx. 730 mm high, 350 mm
deep



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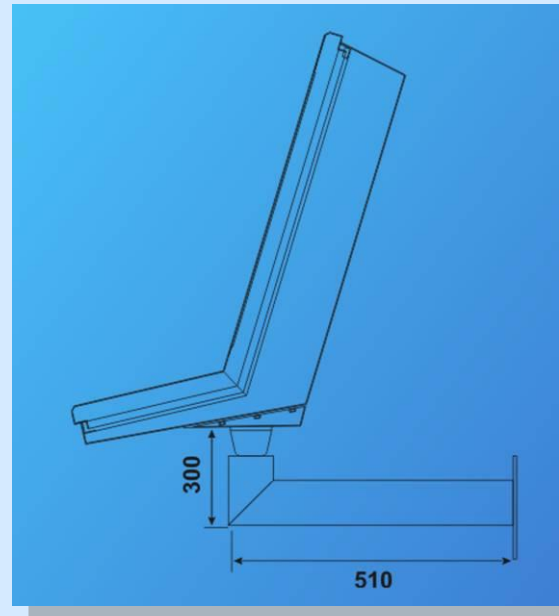
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PC100, ergonomic wall mounting, turnable



PC100, ergonomic, on pillar, turnable



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Gönnheimer
Elektronik GmbH

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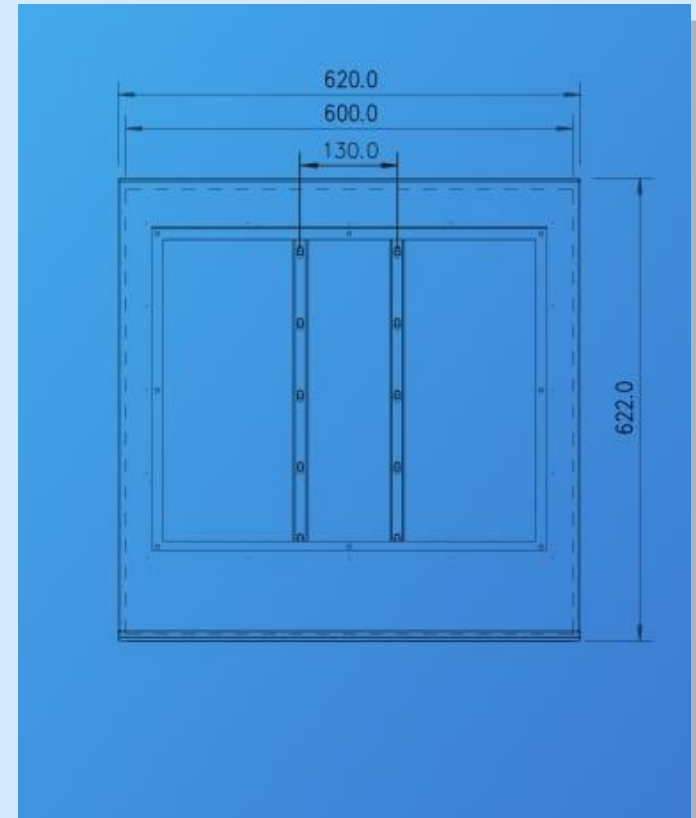
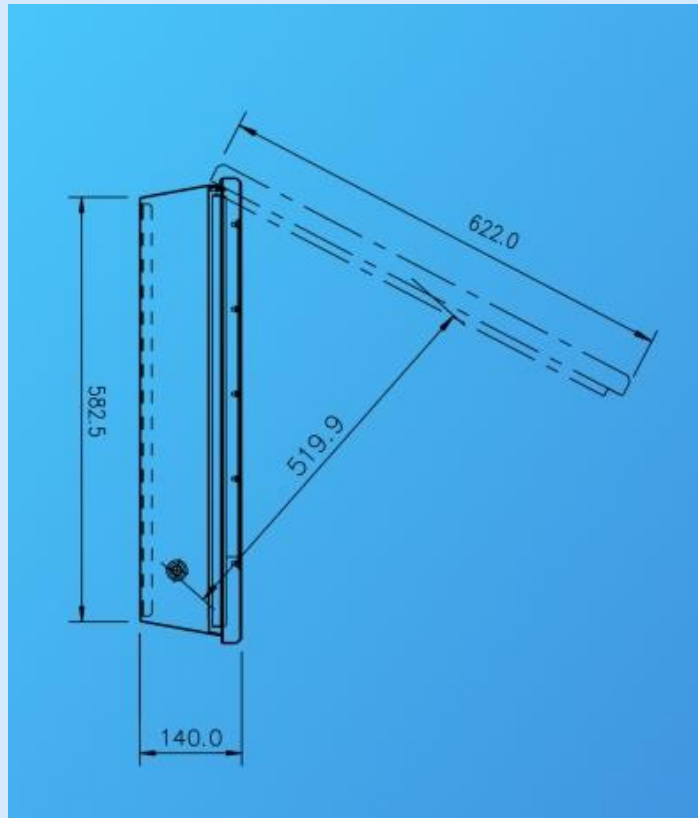
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PC100 housing, suitable for direct wall mounting



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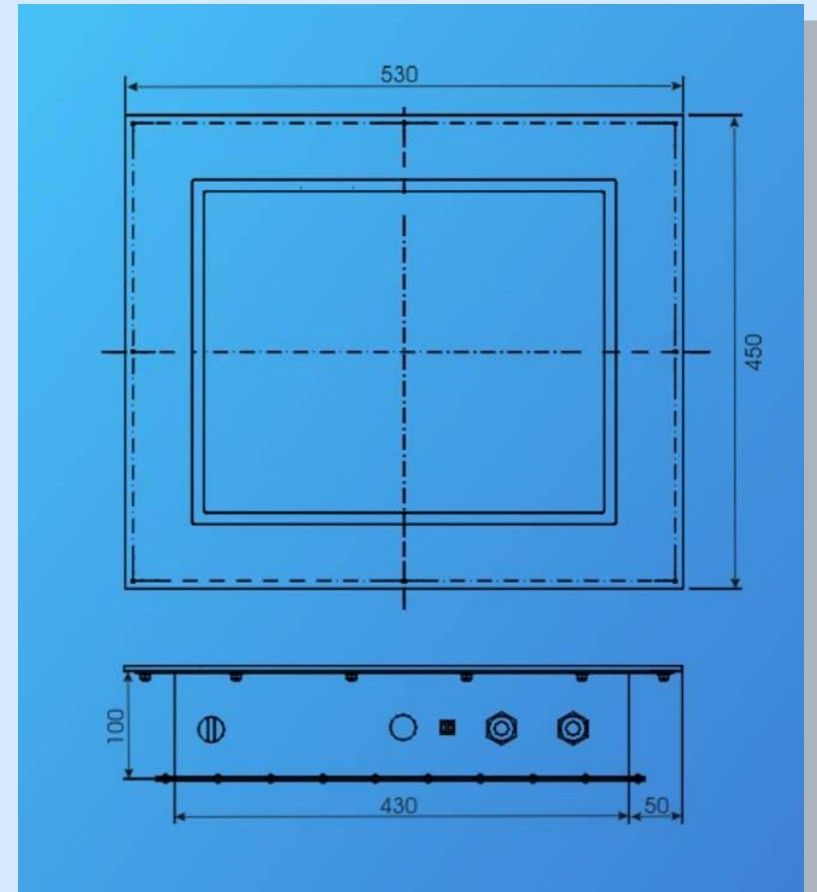
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PC100, displaymodules from 15" on



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- The PC100 with High Brightness option with superior screen luminance.
- Based on the modular concept of the PC100, all Display sizes can be delivered as high brightness types.
- For the PC100 High Brightness system, no extra EC-certificate update is needed like at conventional systems.

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- One main focus during the development and certification of the PC100 system was, to get greatest flexibility within the concept, e.g. to be able to integrate also future display generations.
- Long life cycles of HMI devices require, that a change against the newest available display technology is possible at any time (e.g in case of a possible system update) – without a long ranging update of the EC-certificate!

PC100



8,4"

21"

Sample: Other manufacturers

Test certificate

15"

Test Certificate

18,1"

Appendix to Test certificate

15"

18,1"

19"

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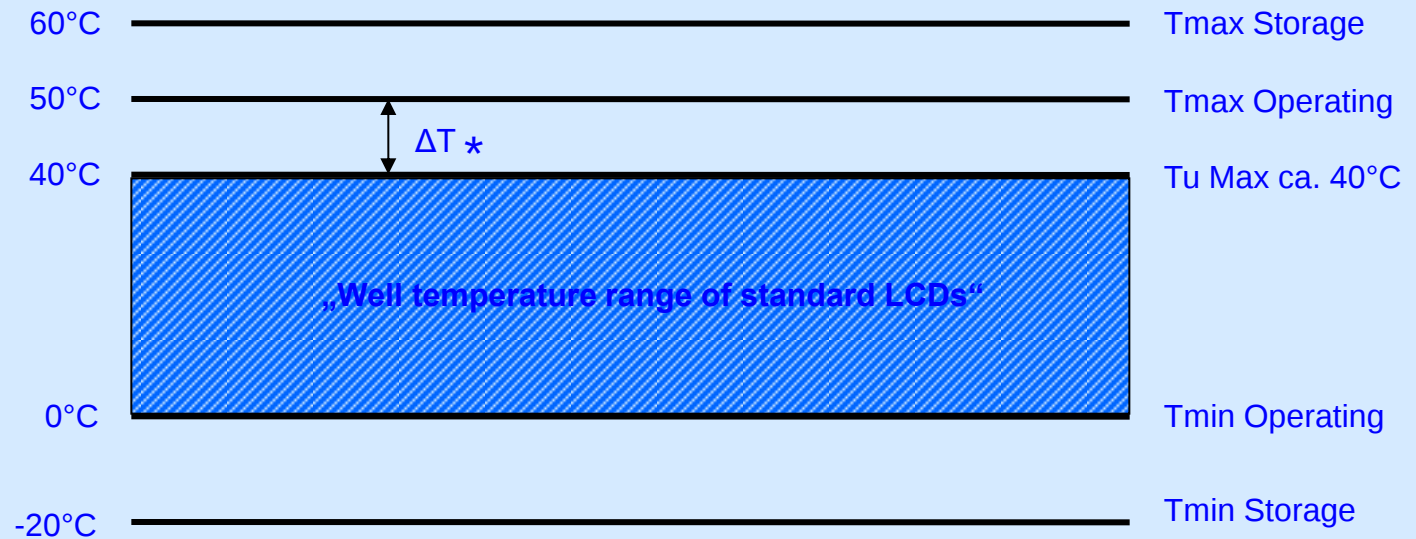
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Industrie LCD's

Typical parameters: Storage temp. - 20 to + 60°C

Operating temp. 0 to + 50°C



* Caused by power loss (Pv) of the LCD panel inside the housing, e.g. by Backlight etc. (Typical values of Pv approx. 30- 45 Watt → ΔT typ. ~10K)

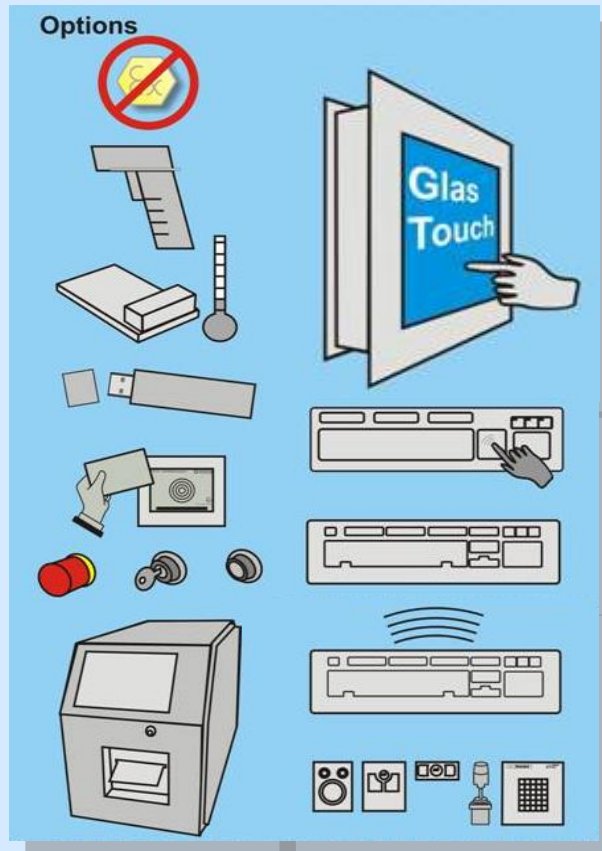
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- To adapt the PC100 optimal to your application, a big variety of different options is available.

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- The PC100 Glas Touch is an operating- and visualization component of an industrial PC within the Ex-area. By use of the combination of TFT and Touch, the operator can work without further input devices like keyboard and mouse.



PC100, 19", Glas-Touch, display module for wall mounting

Glas-Touch	✓	Shock tested, with excellent attributes – see below
Contrast ratio	✓	Excellent, because of the glass surface and no contrast reducing polyester foils
Cleaning	✓	Harmless, because of glass surface. No sensitive plastic foils.
Viewing angle	✓	Excellent, glass surface without disturbing foil sandwiches.
Durability	✓	Hardened glass surface (11x harder than standard window glas!)
Mechanical durability	✓	Highly robust against „unsuitable“ input devices like screwdrivers, because of shock proof glass surface and no sensitive front foil.
Available sizes	✓	All sizes available: 8,4“, 10,4“, 15“, 19“, 21“ 22“WS 24“WS

PC100 Touch: Technical Specifications



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- The different requirements of different production sites require application specific solutions. Keyboards in different variations for different use.



KB153.0

Standard keyboard

Short shift keyboard, IP65,
105 keys, country specific layouts



KB153.2

Touchpad keyboard

like Standard type, with additional
Touchpad



KB153.4

Compact keyboard

Full function range of Standard
type, but only 30 keys!



KB153.0 in V2A stainless steel housing

Standard keyboard, hard-wired, short shift
buttons, IP65, 105 keys, Country-specific
Layouts



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- The Pointing devices are also offered in different types with different options.



TB153.0.0
Stainless steel trackball
Intrinsically safe
Trackball with 2 or 3
buttons and stainless
steel ball 38 mm with
PTFE-sealing ring,
IP65!



TB153.2.0
Industry Mouse
Alternative
pointing device
without moving
parts, IP66!



TB153.2.0
Industry Mouse
Alternative pointing
device in compact
design, IP65!



TB153.3
Industry Joysticks
Multifunction joysticks
USB or PS/2
with contactless sensors
(no potentiometers),
2 or 3 buttons interated in
the joystick knob for
comfortable one-hand
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- The modular PC100 is compatible to older and also to future platform interfaces like Sub-D, DIN-5, PS/2, USB, VGA or DVI. Unrestricted integration in present and future system structures!

Standard KVM digital DVI

Extender with Cat.5/7 copper cable, without auxiliary power, desktop housing with additional connectors for monitor and input devices in safe-area.



Digital fibre optic-KVM Duo

Fully digital data transfer over 2 optical fibers, VGA and/or DVI!



19" for KVM

Optional 19" rails for all PC100 KVM extenders available!



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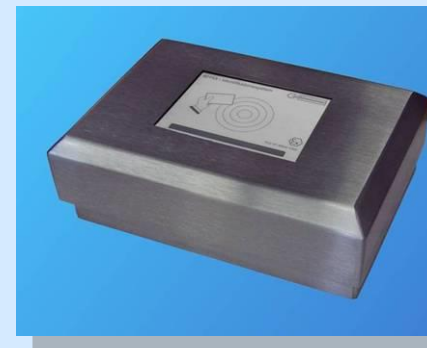
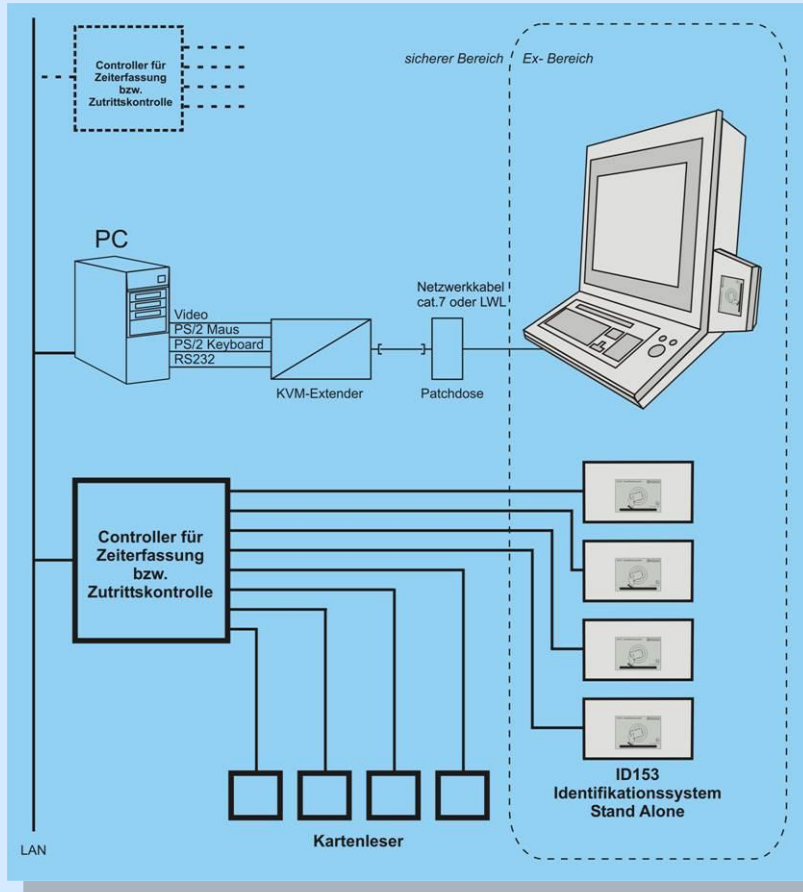
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- **ID153 Identificationsystem**, integrated in the PC100 system, data transfer over standard Cat.5/7 line of the PC100. Also available as an Ex-proof stand-alone identification device for your infrastructure in safe-area.



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- **HS154 Scanner** for high precision and fast scanning under extreme conditions.



- **FD153 Flash disk**, USB 2.0 flash storage medium, e.g. 4GB, for use in Zone 1 and 21, Intrinsically safe USB 2.0 Interface, different memory sizes.

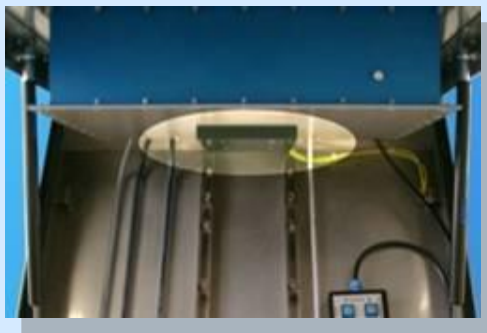
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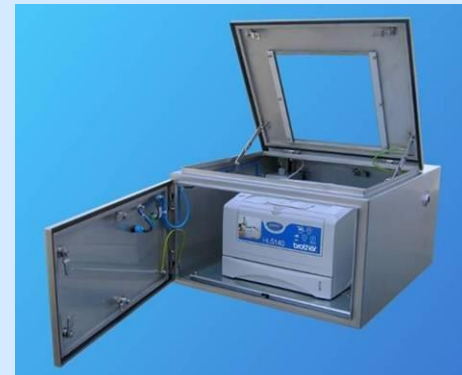
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- **PC100 Heating**, for extended operating temperature range, especially for extremely cold environments, supply over Ex-e terminal box of PC100.



- **Ex p Printer**, for print jobs directly in the Ex-Area, customer- and application-specific stainless steel housings .

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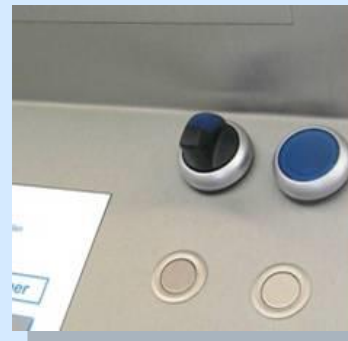
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- **Non Ex PC100**, the modular PC100 concept is also available for non - hazardous areas.



- **Additional keys, lamps and switches**, different types for different applications and functions, e.g. emergency stop etc.



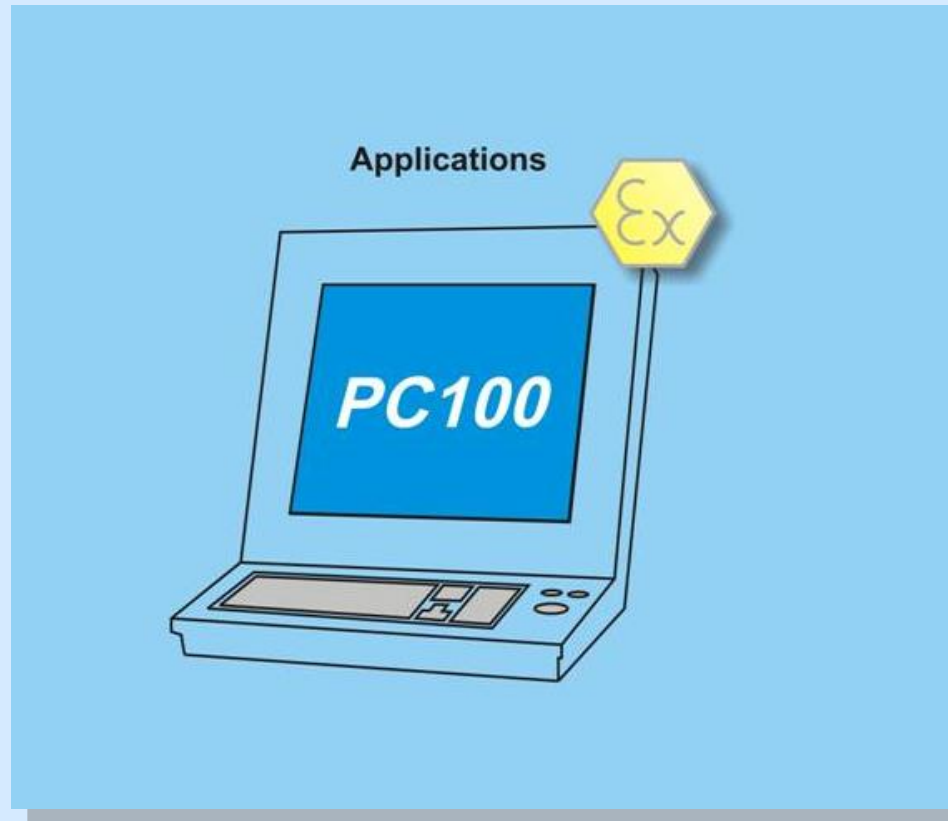
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- The different conditions in different production processes and sites require different solutions.



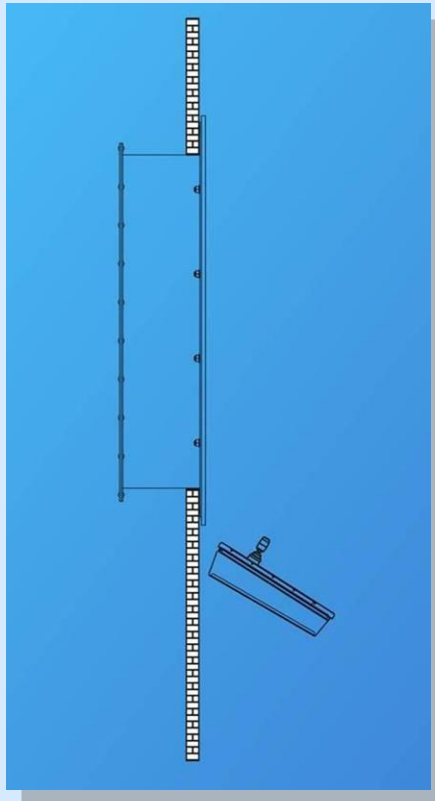
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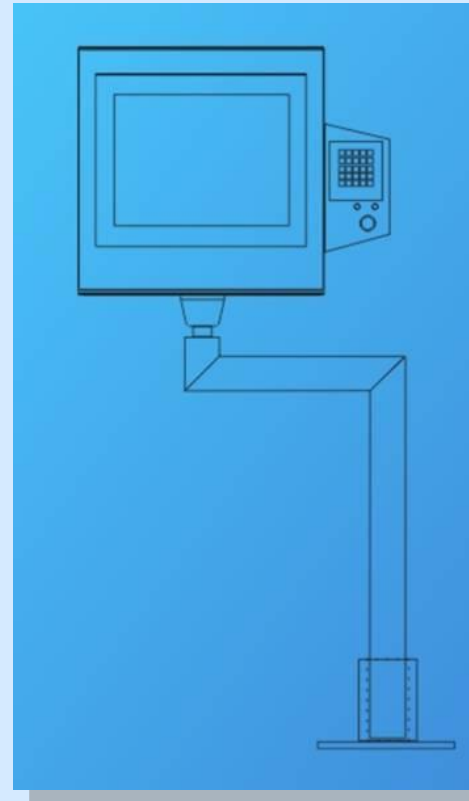
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- **PC100 Panel mounting module,**
Concept for the integration in customer specific cabinets, walls etc., keyboard, trackball or joystick in separate housing with fixture e.g. under 30° angle.



- **PC100 without writing desk,**
display, keyboard, trackball or joystick in separate housing, mounted on a pillar with two swivel joints.

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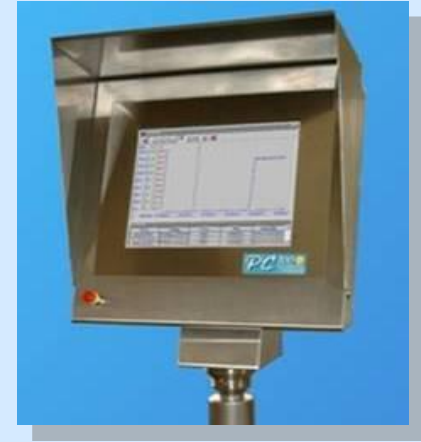
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- **PC100 Individual, The** modular Concept of the PC100 allows an individual und efficient realization of your application.



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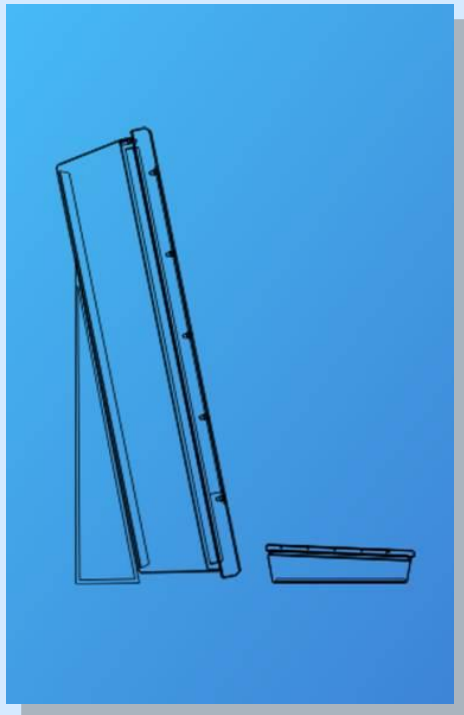
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- **PC100 Dual-Head**, doubled screen size in 15", 19" or 21", for desktop or wall mounting. (Other display sizes also available on demand).



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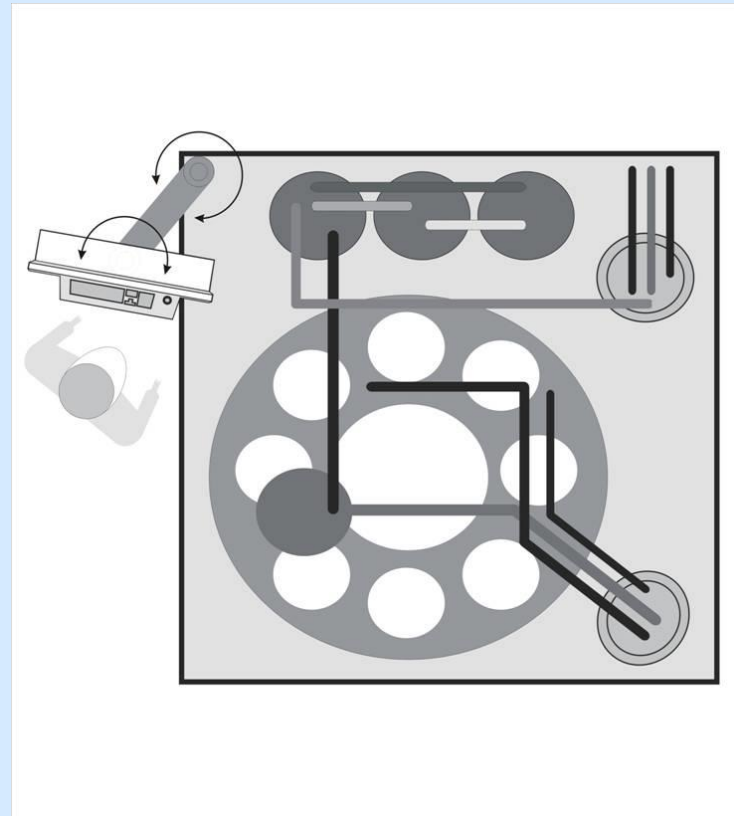
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- **PC100 Optimized to working place**, e.g. if the NAMUR-requirements and the possibilities for the installation of the real working station on site are different..



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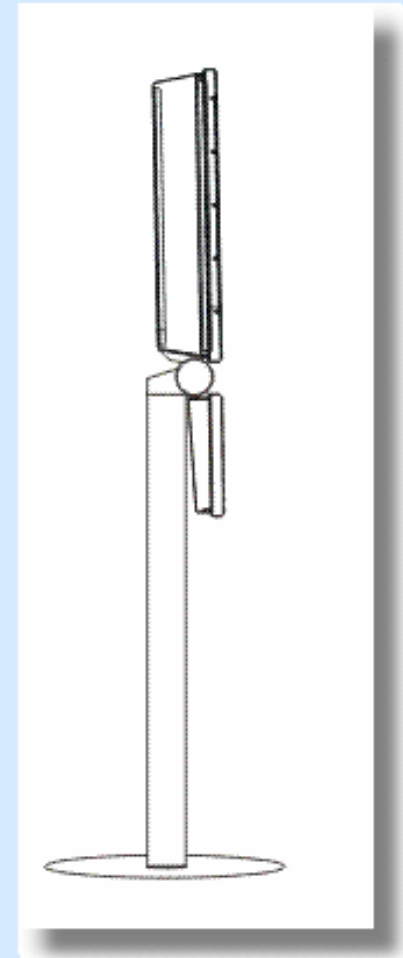
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- **PC100 Ergonomic design**, as the first manufacturer of Ex-PCs and Operator stations, Gönnheimer offers the possibility to adapt the PC100 working place ergonomically and according to the NAMUR-guideline. Adapt the angles of display and keyboard to meet your wishes and preferences.



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- **PC100 Mobile**, 15" – 24" for mobile applications, with KVM extender, Thin Client or Embedded CPU.



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- **PC100 Custom solution**, Touch for Pharma cleanroom application, special installation integrated, rotatable slim case.



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