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Alarm indicator, operator and display panels



Design the future
of energy



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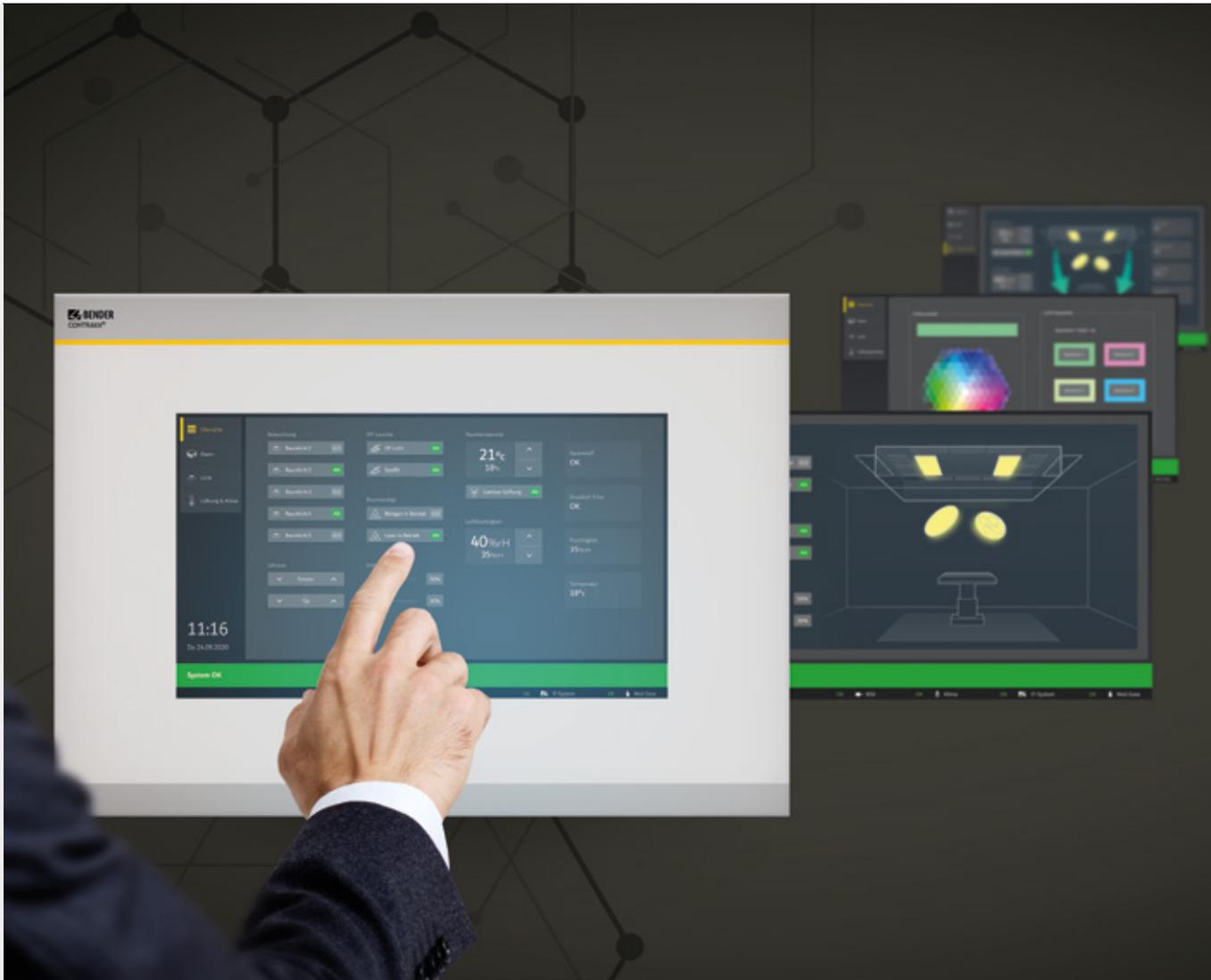
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Stay on top of things

Increasing complexity

In nurses' stations, operating theatres or intensive care units, nurses and physicians now have to handle a wide range of equipment and controls: Lighting, air conditioning, blinds, operating tables, communication systems and much more. It is almost impossible to keep track of everything.

However, all devices and installations should be easy and intuitive to operate. And everything must work trouble-free, because otherwise impairments or hazardous situations could arise, for example if an electrical device is defective or any other electrical fault occurs.

Everything at a glance

What if there was a control and information centre, and medical staff no longer had to worry about complicated operations? All relevant information would be shown on a display, and all important devices could be controlled centrally from that point in a completely intuitive way.

What if the medical staff were informed immediately in the event of a malfunction and given clear instructions on what to do?

What if technicians were automatically informed in the event of an alarm and could identify the location of the fault from their workstation and eliminate it remotely, if necessary?





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The turnkey solution from Bender

The COMTRAXX® CP9xx is a control and information centre for hospitals. It allows users to switch devices on and off centrally, regulate the room climate, adjust the light with precision, switch luminous door warning signs on or off, check the level of medical gases among many other things. In combination with the measuring devices and applications from Bender, the COMTRAXX® CP9xx

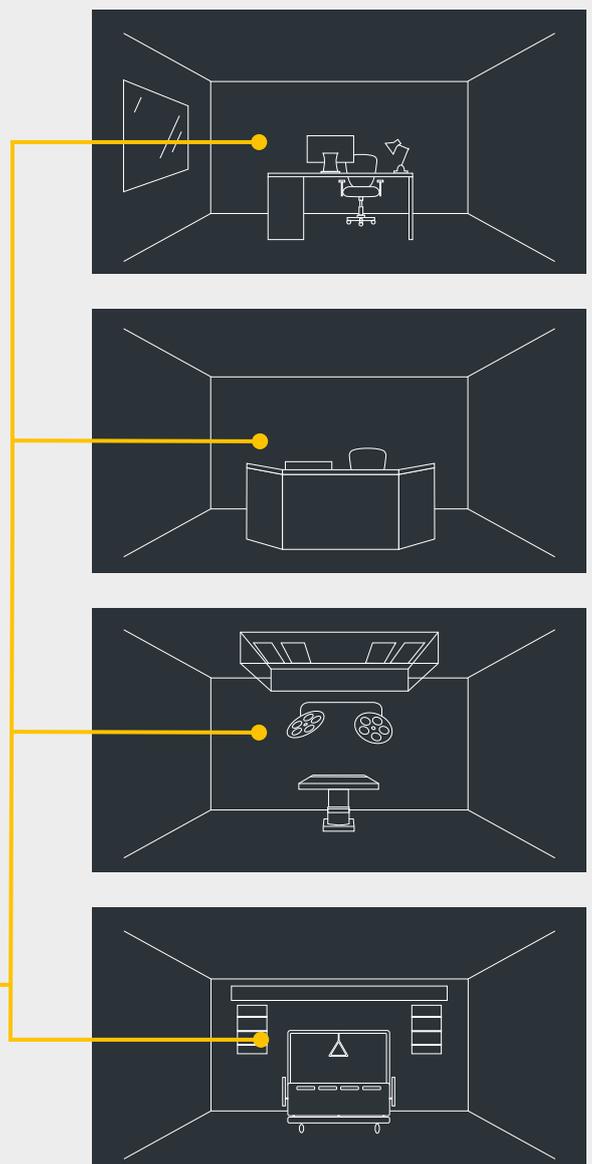
can also indicate whether and where there is a fault in the electrical installation, and inform the staff what to do. Thanks to consistent and intelligent networking, the hospital's technical control centre is informed simultaneously in the event of a fault. This also means that the COMTRAXX® CP9xx is an important step in digitalisation towards Hospital 4.0.

What are the functions of the COMTRAXX® CP9xx?

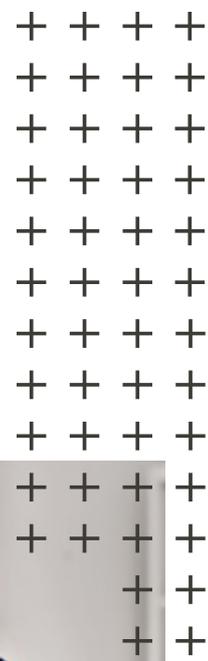
- Switch and control devices centrally
- Monitor individual devices and controls
- Monitor and switch the power supply
- Report faults
- Request support

Where can the COMTRAXX® CP9xx be used?

- **Nurses' station:** Air conditioning, medical gases, luminous door warning signs, timer, alarm function (acoustic and visual), power supply, etc.
- **Operating theatre:** Lighting, operating table control, climate/room air, luminous door warning signs, blinds, timer, system monitoring, alarm function (acoustic and visual), etc.
- **Intensive care unit:** Lighting, climate, device functions, medical gases, luminous door warning signs, blinds, timer, alarm function (acoustic and visual), etc.
- **Operating theatre coordination, recovery room:** Monitoring incl. alarm function (acoustic and visual), etc.
- **Technical control centre:** System monitoring, common alarm, remote access, etc.



The next generation of technical monitoring centres



What are the advantages of the COMTRAXX® CP9xx?

- **Control centre and information terminal rolled into one**
- Quick **overview** of all important functions thanks to the numerous integrated interfaces
- Easy and intuitive **operation via touch screen**
- Workflows can be "programmed"
- Hygienic, elegant, modern
- 3 sizes 7", 10", 24" with glass surface (foil surface available on request)
- Easy to clean and disinfect
- **Intelligent display**
- Clear fault messages, no cryptic codes
- Recommendations for action can be displayed (optional)
- Technician is informed immediately of failures, problems or faults, either by e-mail or mobile device
- In-house technician has direct access to the data and can intervene if necessary. As a result:
 - Less time passes from the detection to the elimination of a malfunction
 - Clear instructions for medical staff in the event of a fault
 - Medical staff can spend more time with their patients
- First-level support directly from Bender via LTE or LAN over secure VPN connection
- Modernisation of your existing installation (retrofitting) possible



What makes the COMTRAXX® CP9xx better than the existing devices?

- Exchange of data with building management systems through extensive networking
- Clearer display of all important information
- Information reduced to the essentials
- Plain text display in case of a fault, including recommended action
- Elegant, modern, flexible, future-proof
- More convenient
- Software can be updated and is easy to install

Conclusion:

The COMTRAXX® CP9xx

- makes many things easier
- supports medical staff
- supports technicians
- helps to reduce or avoid downtime
- leaves medical staff more time for patients



Flexible and individual solutions with the COMTRAXX® CP9xx

Not every hospital is the same. Bender has many years of experience with alarm indicator and operator panels in medical locations. Based on the feedback and wishes of the customers, the COMTRAXX® CP9xx is a device with which a wide variety of customer solutions are possible.

Instead of switches and small displays for one room, we offer a turnkey solution for operating theatres, intensive care units or nurses' stations as well as for the technical control centre. The modern design and innovative operating concept of the COMTRAXX®

CP9xx makes it even more suited for use as a control and information centre.

The COMTRAXX® CP9xx can be configured individually for each application. The glass surface and design can also be tailored to the customer's wishes.

Examples:

- Printing of an individual logo
- Adapting the appearance to the interior design of the hospital

Variants



CP907

The little helper – with glass surface

The compact design of the CP907 makes it ideal for use as an information terminal which includes light control at nurses' stations or intensive care beds. It can be connected to the building management system by means of an RJ45 cable.



CP924-G

The hygienic and elegant one – with glass surface

Ideal for group-2 rooms. All necessary functions for room control can be integrated and are displayed in a clear way for the user. The uniform glass surface has no edges, which basically prevents dirt from adhering to it.



CP924-H

The big all-rounder – with glass surface or as hybrid version

This hybrid solution combines all features of the COMTRAXX® CP9xx with necessary third-party devices, such as operating table controls. All important functions and controls are in one place. This central, clearly arranged information and operating unit enables medical staff to keep track of everything.



Retrofitting options

Flexible friends

The surface-mounted frames and foil solutions are used wherever there are special installation requirements.

Whenever the available space is limited, the foil front with a CP910 or the surface-mounted frame solution with a CP924 is the right choice for your project.

| Variant matrix | CP907-G | CP910-G | CP924-G | CP924-H |
|------------------------------|---------|---------------|---------------|---------------|
| Surface | glass | glass | glass | hybrid |
| Colour | white | white or grey | white or grey | white or grey |
| Foil with matt finish | — | * | — | ✓ |
| Bezel frame (UPB housing) | — | ✓ | ✓ | ✓ |
| Surface-mounted frame (AS) | — | ✓ | ✓ | ✓ |
| Surface-mounted housing (AP) | ✓ | ✓ | ✓ | ✓ |
| Projecting glass plate (ÜF) | ✓ | — | ✓ | — |

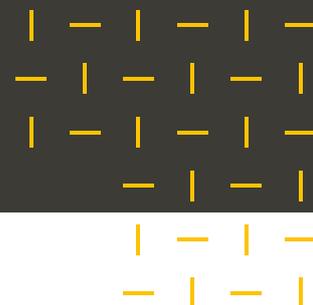
Hybrid = glass and foil combination* Foil variant optionally available

What does your solution look like with the COMTRAXX® CP9xx?



Example of a 42" display with glass surface and customised housing

Whether it is the range of functions or the design – almost anything is possible when it comes to displaying and controlling devices and installations. Therefore, the COMTRAXX® CP9xx is the solution of the future for your hospital.



The right housing choice

Panels must be fixed and installed, and form a harmonious appearance with the wall surface. It is essential to choose a suited housing in order to achieve this.

The housings are not only available with bezel frames (UPB) but also with surface-mounted glass fronts (ÜF) or as surface-mounted housings (AS). The flush-mounted housings of the ÜF series (mounting frames) and the UPB series (bezel frames) are made of natural/silver-coloured aluminium. The standard mounting depth is 150 mm*.

Housing dimensions Three dimensions must be observed. The bezel frame version is the most commonly used.

- Dimensions of the housing
- Dimensions of the wall cut-out
- Dimensions of the bezel frame

The dimensions of the housings most commonly used in projects are listed in the table. The wall cut-out dimensions are decisive for the installation.



Housing variants



Surface-mounted frame (AS)



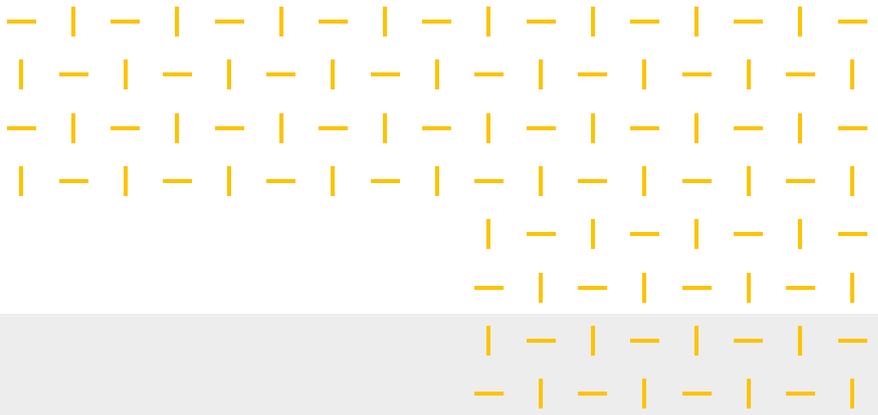
Projecting glass plate (ÜF)



Bezel frame (UPB)



Surface-mounted housing (AP)



Housing dimensions

| Panel variant | Type*
(Name-WxHxD) | Housing dimensions **
(WxH) mm | Wall cut-out dimensions
(WxH) mm | UPB bezel frame dimensions
(WxH) mm |
|---|-----------------------|-----------------------------------|-------------------------------------|--|
| UPAF-BR | | | | |
| CP924-G | UPAF-BR-666x453x150 | 666x453 | +3x+3 | +30x+30 |
| CP924-G | UPAF-BR-453x666x150 | 453x666 | +3x+3 | +30x+30 |
| CP924-H | UPAF-BR-898x666x150 | 898x666 | +3x+3 | +30x+30 |
| UPAF-UEF | | | | |
| CP924-G | UPAF-UEF-610x398x150 | 610x398 | +3x+3 | — |
| AP | | | | |
| CP924-G | AP-660x447x120 | 660x447 | — | — |
| AS Two different depths are available (65 mm and 120 mm). Requires consulting. | | | | |
| CP924-G | AS-800x650x65 | 800x650 | -30x-30 | — |
| CP924-G | AS-650x800x65 | 650x800 | -30x-30 | — |
| CP924-G | AS-447x660x65 | 447x660 | -30x-30 | — |
| CP910-G | AS-650x500x65 | 650x500 | -30x-30 | — |
| CP910-G | AS-500x650x65 | 500x650 | -30x-30 | — |

* Other housing dimensions available on request at an extra charge

** Additional 10 mm peripheral flange

Is your installation still reliable and equipped for today's requirements?



Retrofits: For a reliable power supply in hospitals

Your problem

- The standard now demands more - for a good reason
- Old installations are not capable of reliably monitoring modern medical electrical devices for insulation faults
- Spare parts for old installations are no longer available
- Use of rooms and locations has changed
- Complete modernisation of the electrical installation is not possible

Our offer

We advise you and work with you to develop a solution concept for the modernisation of your installations, from the initial assessment to commissioning.

Benefit from the Bender expertise

Let us inspect and evaluate your installation together. We will gladly provide you with a non-binding modernisation offer tailored to your needs.

These are your advantages:

- Standard-compliant in accordance with the current DIN VDE 0100 Part 710
- Update to the latest technical safety standard
- High availability of electrical installations thanks to new and improved technology
- Clear and simple operation
- Increased electrical safety for patients, physicians and staff
- Spare parts supply guaranteed
- Future-proof towards Hospital 4.0



Old: Changeover and monitoring module UM107ETU

New: Automatic transfer switching device ATICS®



Old: Operator panel MK2418



New: COMTRAXX® CP305 and CP915

Start modernising now!

Trust our many years of experience in the hospital sector

Any questions?
Find your local Bender contract partner:



Alarm indicator and test combinations

Display, indication, operation

The small panels are mainly used in intensive care units, preparation rooms and recovery rooms. Simultaneously to the information at the nurses' station, the medical staff immediately receives a notification when there is a power supply failure. Thus, they can immediately respond to the disruption.

For indication of more information on the display, for example messages from a battery-supported safety power supply system, only much larger panels are available. The remote alarm indicators of the CP305 series can be included in the bus technology.



Alarm indicator and test combination CP305

Device features

- 5" touch screen
- Central display unit for operating and fault messages for monitored power supply systems in medical locations in accordance with DIN VDE 0100-710
- Display of other components from the MEDICS® system (e.g. RCMS monitoring, ATICS® devices, etc.)

Your advantages

- Parameter setting via web server, display or Bender Connect app
- Freely programmable alarm texts
- Flush-mounted and surface-mounted versions
- Easy replacement MK2007/ MK2430 (retrofitting)



Alarm indicator and operator panel CP907

Device features

- 7" touch screen
- Central display unit for operating and fault messages for monitored power supply systems in medical locations in accordance with DIN VDE 0100-710
- Display and operation of other components from the MEDICS® system (e.g. RCMS monitoring, ATICS® devices, etc.)
- Control of room functions

Your advantages

- Clearer display of all important information
- Fault messages are displayed in clear text, no cryptic codes
- Easy replacement MK800/ (retrofitting)

Display panels AT series

Mounting variants

all dimensions in mm



Flush-mounted housing with bezel frame

Housing:

W x H x D = 339 x 184 x 73

Bezel frame:

W x H = 350 x 195, 3 mm thick



Surface-mounted housing

Housing:

W x H x D = 300 x 150 x 60

W x H x D = 300 x 150 x 40



Ceiling housing

Housing:

W x H x D = 300 x 205 x 80



Changing the coloured lenses



Individual texts available on request

These display panels are often located above doors where it is necessary to indicate whether a room is occupied and access may not be desired. They are often used in hospitals as well as in industrial or public buildings. The AT panels can be equipped with different coloured lenses and text. Various types of housings are available.

■ Flush-mounted housing with projecting front plate

The silver-coloured anodized aluminium front plate (3 mm thick) extends the wall box by about 7 mm to cover the gap of the wall installation. The flush-mounted housing itself is made of galvanised sheet steel (1 mm thick).

■ Surface-mounted housing

Two different surface-mounted housing variants are available. The surface-mounted housing may be mounted directly onto the wall through the predrilled holes. The partially recessed surface-mounted housing may be mounted using a standard flush-mounted/cavity wall box (D = 68 mm, D = 62 mm). The coloured lenses can be slid into the housing from the side and are secured by a short screw on top of the housing.

■ Ceiling housing

The housing may be mounted to the ceiling using a standard flush-mounted/cavity wall box (D = 68 mm, D = 62 mm). The panel has two luminous lenses which can be read from both sides when installed in a hallway. The coloured lenses can be slid into the housing from the side and are secured by a short screw on top of the housing.

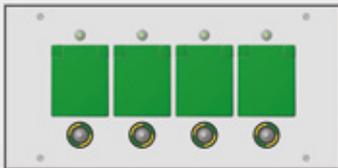
Your advantages

- Degree of protection depending on selected version, i.e. IP 2...IP 54
- Optional cable gland
- Front plate made of transparent or coloured acrylic glass without visible screws
- Individual texts available
- Various screen/lens colours available (yellow, red, white)
- Luminaires with long-life LED technology

Standards

- IEC/EN 61439-1, VDE 0660-600 Part 1, Low-voltage switchgear and controlgear assemblies
- IEC/DIN EN 60598-1, General requirements for luminaires with electrical light sources

Socket-outlet panels ST series



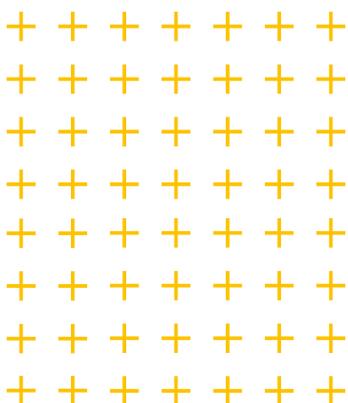
Socket-outlet panels ST series

The socket-outlet panels are a central supply point.

Socket-outlet panels minimise the installation effort and support the work of the medical staff, since they provide important information to the medical and technical staff. For example, socket-outlets have to have contrasting colours for:

- Identification of the upstream group-2 distribution board
- Identification of the power circuit
- Identification of the power supply class

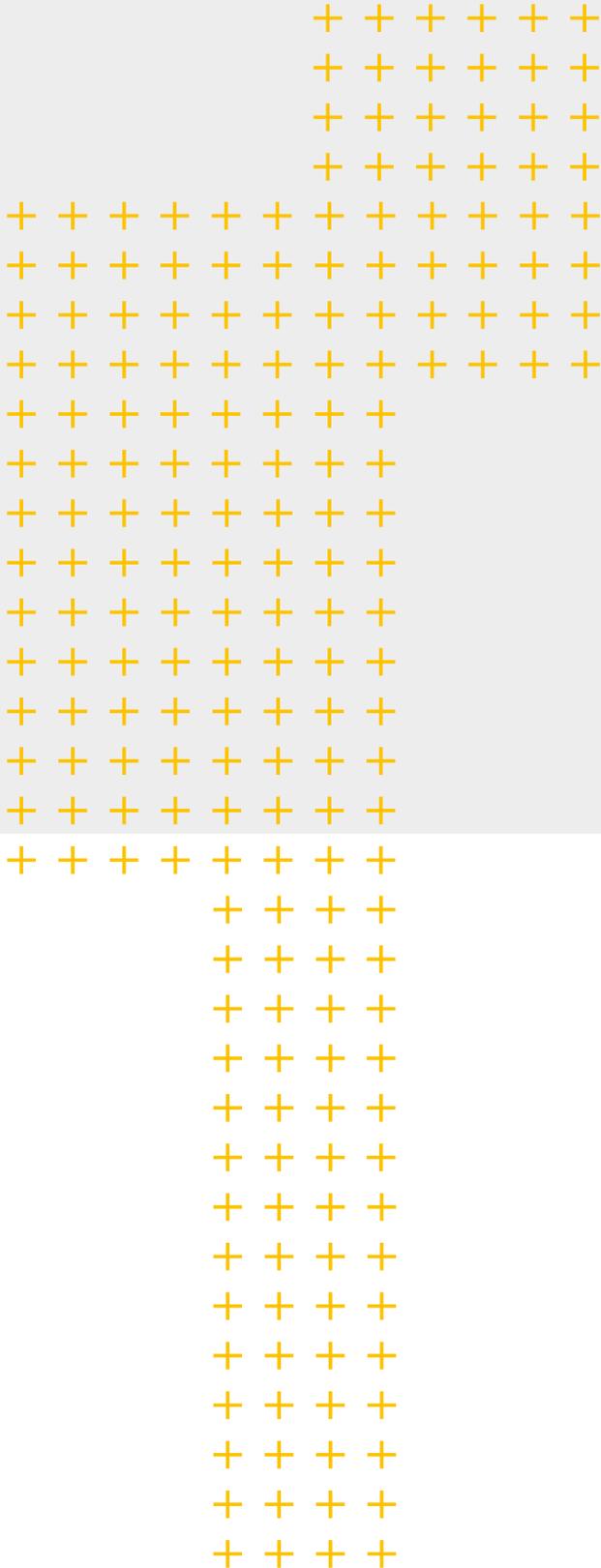
In locations where medical electrical devices/ME systems are used, the supplementary equipotential bonding has to be available and easy to use. This is not an issue if adequate plug connectors are available, since the panel of the ST series complies with the requirements.



The socket-outlet panel offers various solutions for a proper installation:

- The supply line cross section to the socket-outlet connection is always in the range between 4...6 mm², a cross section that cannot be connected to a standard socket-outlet: An adequate terminal board in the socket-outlet panel solves the problem.
- For reasons of availability, 2, 3 or 4 socket-outlets mounted close together are to be supplied from two separate circuits: The terminal board in the flush-mounted box makes it possible.
- In addition to socket-outlets for arbitrary medical electrical devices, socket-outlets supplied from a separate final circuit are to be installed: The proper terminal board in the flush-mounted box offers numerous options.
- The weakest current source only allows one (1) socket-outlet per final circuit: No problem, the flush-mounted box conveniently allows for various supply lines.
- Medical electrical devices with an output of more than 5 kVA require a coded plugging. The power supply for these devices can be switchable.





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