SMART-PANEL
Elegant wall-mounted enclosure
for modern control units

SLIM-CASE
Slim design handheld enclosure

INSIDE
THE OKW CUSTOMER MAGAZINE

DEAR READER

In the latest issue of our customer magazine INSIDE, we present our latest product groups, SMART-PANEL and SLIM-CASE.

The new SMART-PANEL wall-mounted enclosures blend in perfectly with their surroundings thanks to their attractive design. The elegant square or rectangular design fits seamlessly into modern residential/commercial and industrial environments. The enclosures are ideal for the convenient control and monitoring of the entire building technology.

Another point of focus in this issue is the SLIM-CASE. This range of handheld enclosures, with its particularly slim design, shows what is currently possible in mobile enclosures, in terms of both appearance and function.

In addition, we report on plastic enclosures that are robust enough to meet the various requirements in the smart factory.

We hope you enjoy reading our magazine.

Dipl.-Ing.
Christoph Schneider

Dipl.-Betriebswirtin (BA)
Yvonne Ellwanger

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SMART-PANEL

With the SMART-PANEL, OKW Gehäusesysteme has developed a particularly attractive and comfortable control system for residential/commercial areas and industry. The elegant square or rectangular design fits seamlessly into any environment.

The new wall-mounted enclosures allow the quick and efficient installation of equipment on site with an extensive range of accessories.

Author: **Lisa Steinmetz**, Marketing at OKW Gehäusesysteme

The SMART-PANEL has a two-part design with a top part and a bottom part. The top and bottom parts are assembled by means of a simple snap-in function. The absence of screws gives the housing a particularly practical and at the same time modern look. Thanks to the highly polished bottom part, it also looks particularly elegant and can easily be integrated into any environment. The top part has a fine surface structure. Nothing seems out of place, and the combination of materials, finishes and screwless assembly results in an aesthetic overall impression. The cover surface is recessed 1.3 mm to protect membrane keyboards, display/operating elements and touch displays.

Snap-in function

The slim enclosure design is available from stock in 2 sizes (height x width x depth):

Two versions

- **Square shape**
  with 84 x 84 x 21.3 mm. This version is prepared for concealed installation on standard flush-mounted/cavity wall boxes (Germany, Belgium, Switzerland, Austria with a max. installation opening of 61 mm).

- **Rectangular shape**
  with 155 x 84 x 21.3 mm. This version is prepared for concealed installation on simple flush-mounted boxes (Germany, Belgium, Switzerland, Austria up to a max. installation opening of 61 mm),

double flush-mounted boxes as well as larger installation boxes (e.g. in Italy, Great Britain and USA) up to a max. height of 145 mm and width of 74 mm.

Both versions can also be installed directly on the wall. The bottom part requires a recess for a cable connection (a pre-formed recess provides assistance here). The cables then only need to be connected to the electronics in the top part, and then the entire top part snaps in to the bottom part.

There is a comprehensive range of accessories to allow the SMART-PANEL to meet many different requirements. If you have to open the housing again

Modern look

due to faults or to replace the electronics, for example, this is no problem thanks to the opening tool. This method protects the snap-in hooks without damaging the surface. Components are mounted on four integrated fastening pillars in the top part. An optional phenolic resin hardboard plate can be mounted on four additional pillars. The plate protects the underlying electronics from damage during installation and subsequent service work. For more security it is possible to hot-caulk or glue the phenolic resin hardboard plate to the push-on pillars.

In addition, a glass pane is also available for high-quality applications such as the use of displays. This is simply glued into the recess on the cover surface for a perfect fit. Suitable adhesive foils are available in the accessories range. Printing on the rear is possible on request, to match the visible display section and to cover the adhesive surface.

The enclosures have an IP40 protection class, which is absolutely sufficient for indoor applications in the low-voltage range. These include wired control/operating centres (with KNX), on the one hand, and

on the other hand radio-connected devices in the smart home, the Industrial Internet of things (IIoT), access controls of all kinds, monitoring devices in security areas and much more. As modern control centres, however, other sectors such as the ones mentioned above are also possible. For example, end devices can be implemented for data acquisition systems, computer peripherals, measurement and control technology, medical technology and health care.

Nowadays it is impossible to imagine life without devices that have USB access. They can be used to collect or import a lot of relevant data. This is exactly the kind of application that was also thought of in the design: the bottom part has a flat, recessed surface. This can be used for USB and Mini-USB connectors etc. This is where the enclosure can be opened if necessary by means of the separate opening tool (best used in pairs). The end devices which were implemented with this enclosure range should preferably be installed on the wall. However, the equipment cannot always be installed there, because possibly there is no suitable place. Alternatively, therefore, the enclosures can be used as desktop devices. Four self-adhesive rubber feet are included in the supply. These ensure safety and stability.

As you would expect from OKW, a wide range of modifications can be implemented on request in accordance with individual customer requirements. These include cutouts for operating/display elements and interfaces, printing of markings or graphics, labelling of functions, EMC aluminium vapour plating to protect the electronics, decor foils with or without embossing for key functions, as well as assembly work.

Tirneless design

The enclosures are made from high-quality, flame-retardant ASA+PC-FR (UL 94 V-0) and are available in the colour traffic white (RAL 9016). If a different colour is desired, for example to represent a distinguishing feature of the company or to match existing end products, this is possible on request according to customer specifications. Enclosures in other materials – for demanding applications – are also conceivable. From 200 pieces and depending on the results of the feasibility test, these can be manufactured according to your requirements.

Product advantages in brief:

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- slim enclosure design in 2 sizes:

  – *Square shape*
    with 84 x 84 mm. This version is prepared for concealed installation on standard flush-mounted/cavity wall boxes (max. installation opening of 61 mm).

  – *Rectangular shape*
    with 155 x 84 mm. This version is prepared for concealed installation on simple flush-mounted boxes (max. installation opening of 61 mm), double flush-mounted boxes as well as larger installation boxes up to a max. height of 145 mm and width of 74 mm.

- rational, screwless enclosure assembly with snap-in function

- recessed control panel protects membrane keypads, display/control elements, touch displays

- high-quality V0 ASA+PC-FR material in traffic white (RAL 9016)

- flat, recessed area in one end for USB and Mini-USB connectors etc. as well as for opening the enclosure by means of a separate opening tool (accessory)

- accessory glass panel fits to top part and is designed for premium applications

Square shape

Rectangular shape

Enclosure available in special colours on request

Opening-tool (accessory)

SLIM-CASE

Mobile devices require functional and visually appealing packaging. Handy, flat dimensions, yet at the same time with a lot of volume, are ideal for universal installations and modern radio standards. Integrated displays and touchscreens should be shown to their best advantage.

The new SLIM-CASE series of handheld enclosures by OKW Gehäusesysteme, with their slim design and their choice of different operating fronts, is ideally suited for these mobile electronic applications.
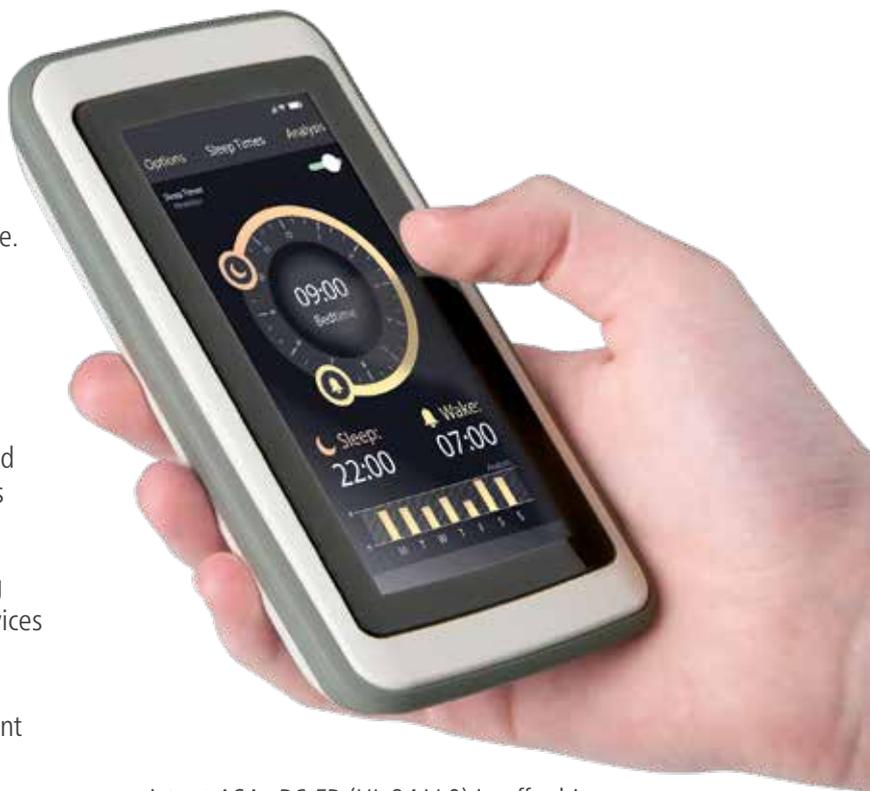
In the construction of the SLIM-CASE, attention was paid to a particularly flat design. Mobile devices should be able to be put into clothes, bags, suitcases, etc. as required, without taking up much space. This makes work easier because they are always at hand. Many electronic applications today are equipped with a display or touchscreen. The new enclosure range offers the optimum solution for this. The SLIM-CASE is available in a total of six versions measuring 148 x 74 x 19/22 mm (length x width x height), that is, similar in size to a smartphone. Depending on your requirements, you can choose between three different operating panels:

Author: **Lisa Steinmetz**, Marketing at OKW Gehäusesysteme

- **Recessed 1.6 mm:** for the use of a contoured transparent front screen or for membrane keyboards. A solution with a touchscreen is possible.

- **Recessed 1 mm:** for simple applications with decor foils that are marked with important information about functions or about the company, for example.

- **Flat operating panel:** for individual design and arrangement of operating and display elements of all kinds.

But that is not all: in addition to various operating fronts, there are also two bottom parts. Some devices require a larger installation volume, they must be particularly watertight or dust-tight, or they must have increased protection from damage on account of the functions they have to perform. To do this, choose a lower section with or without a raised fastening pillar. In the latter case, a TPE intermediate ring available in volcano as an accessory can be used.

Various operating fronts

On the one hand, this improves the protection class, and it also serves as shock protection. If required, the intermediate rings can be produced as special designs in the material ABS, or can be galvanically chrome-plated.

The SLIM-CASE lies comfortably in the hand and looks particularly good. The enclosure range includes one top and one bottom part each, made of flame-resistant ASA+PC-FR (UL 94 V-0) in off-white (RAL 9002). Assembly is effected from behind, using four TORX stainless steel screws. This makes the design even more elegant, since no screw heads are visible in the operating area. Especially in variants with a display, this would otherwise severely impair the visual appearance. In addition to the choice of three operating fronts, two bottom parts and the TPE intermediate ring, there is also a transparent front screen in the accessories range. This is attached by means of an adhesive film on the top part.

Aesthetic and modern

If you want to install a display or touchscreen, this option is an excellent solution, as it also provides

Can be used almost anywhere

protection. The front screen window also offers the option of printing on the rear. The adhesive edge disappears when a frame is printed onto the glass. Other information or markings may also be applied.

The enclosures achieve protection class IP 54 with the TPE intermediate ring and protection class IP 65 with an optional seal. If this is not required, but the end device should still have a high level of protection, the accessories range includes a suitable seal for insertion into the top part. SLIM-CASES can thus be used both indoors and outdoors. Outdoor use is made easier by the cordless option. With an appropriate coil, it is possible to charge the enclosures. This is done at close range with the Qi standard for wireless charging. Alternatively, an internal power supply with a flat battery can also be implemented on the board. Each top and bottom part has four fastening pillars each. Boards and built-in parts can easily be mounted on them.

The slim design makes the enclosures ideal for the installation of flat electronic components as well as large-area displays and touch applications. The possible fields of application are therefore very diverse. Take wireless communication, for example:

logistics employees can always view the current status of incoming goods or the dispatch of products directly, no matter where they are in the company. For the IoT/IIoT, on the other hand, you need intelligent, interconnected systems. The SLIM-CASE is simply equipped with the appropriate technology to ensure smooth communication. A display shows important functions or even malfunctions directly. The same applies to devices in measuring and control technology. In addition, the areas of application go much further: applications in health care for health checks, in laboratory and medical technology, to display important patient data directly to doctors and nursing staff, or in environmental technology for data checks of weather conditions and air purity are just as conceivable.

In order to prepare the SLIM-CASES for these diverse applications, they are modified according to customer requirements. To this end, an in-house service centre is on hand to provide advice and assistance to ensure you find the best solution. Various processing and finishing methods are available: mechanical machining for interfaces, printing of company logos or function labels,

Modified according to customer requirements

painting in various degrees of gloss or in metallic paint, EMC aluminium coating to protect the electronics, membrane keyboards, assembly and much more.

Product advantages in brief:

- rounded sides and a flat compact design

- three different operating panel designs:

  – *Flat operating panel*
    For easy arrangement of push buttons, displays, LEDs etc. Plus, printing of logos and legends

  – *Recessed (1 mm) operating panel*
    Ideal for applications with product labels

  – *Recessed (1.6 mm) operating panel*
    For fitting the transparent front screen or a membrane keypad

- with and without TPE intermediate ring

- protection class IP 54: SLIM-CASE vers. IV-VI with TPE intermediate ring

- protection class up to IP 65: SLIM-CASE vers. I-III with optional seal

- the TPE intermediate ring increases the installation high and provides impact protection

- enclosure parts made of ASA+PC-FR (UL 94 V-0), off-white (RAL 9002)

- cutouts for operating and display elements, interfaces, lettering, EMC aluminium vapour plating etc. on request

SPECIFYING PLASTIC ENCLOSURES FOR INDUSTRY 4.0 ELECTRONICS

Electronics manufacturers know the importance of Industry 4.0 only too well. The race is on to create the next generation of robotics, computing, sensor and HMI products that will take manufacturing to the next level and beyond. OEMs face huge pressure to meet burgeoning demand in this rapidly growing market sector. And all this IIoT sensor technology must be housed within enclosures robust enough to meet the challenging demands of the modern smart factory. That in itself has created a mini-boom segment in the electronic enclosures market.

Author: **Kay Hirmer**, Stratetic Product Management at OKW Gehäusesysteme

But until recently there was something missing from would-be IoT/IIoT housings – innovation. Enclosure manufacturers have been under such pressure to meet demand that many have simply repurposed existing designs and rebadged them as IIoT sensor cases. Few manufacturers offered any genuinely new customisable standard enclosures created specifically for IoT/IIoT and Industry 4.0. Not least because standard enclosures – by their very nature – have tended to be less specialised; they must remain versatile and be all things to all designers. But all that is changing. A new generation of IoT/IIoT-focused housings is now available to electronics designers vying to satiate demand for Industry 4.0 solutions.

DEDICATED ENCLOSURES FOR IOT/IIOT SENSORS

So what makes a good IIoT enclosure? What separates it from the myriad of other plastic enclosures?

Quick and easy installation in a wide range of possible locations is paramount. Industry 4.0

involves collecting vast quantities of data to hone the manufacturing process. So smart factory operators must install large numbers of sensors – sometimes in challenging locations.This requirement inspired us to add key design features to our new EASYTEC range of IoT/IIoT enclosures:

• versatile lugs at each end that offer not just screw holes but also apertures for cable ties – making installation extremely rapid

• a concave recess in the rear section – enabling stable and secure mounting on poles and rails (without compromising wall mount stability)

• EASYTEC is available in two plan sizes and two heights: 101 x 50 x 22/26 mm and 121 x 62 x 26/31mm. Mounting pillars in the top and base offer a choice of two levels for installing the PCBs.

WHICH PLASTIC FOR IIOT ENCLOSURES?

Today's new IIoT enclosures need to be stronger and more resilient than the average plastic housing. So ABS – as a good a plastic as it is – may not be the first choice of material. ABS is great for a wide range of working environments but the average factory can prove more demanding. For this reason, EASYTEC is moulded from a flame-retardant ASA+PC-FR blend. ASA provides the enhanced UV stability while the polycarbonate (PC) offers greater impact resistance (it's the plastic used in CDs and riot shields).

WHY POLE-MOUNTED ENCLOSURES NEED TO BE ERGONOMIC

EASYTEC's design also features something more commonly found in handheld enclosures: ergonomic soft contours. This may at first seem superfluous, given that these enclosures are mounted on poles and walls, but at some point they will be handled, even if only during installation. Those soft curves also satisfy another important requirement – aesthetics. Enclosures must look as smart, modern and futuristic as the 21st century factories they inhabit. And ideally, they should feature the same design language as other enclosures in the factory. That's why we've styled EASYTEC to match our EVOTEC designer desktop and wall mounted enclosures.

The soft contours common to both ranges come into their own when the sloping-top version of EVOTEC is used in a desktop or wall mounted role. They make it easier for a user to operate a touchscreen or membrane keypad. What else should a designer look for in a good IIoT sensor enclosure? Superior ingress protection (at least IP 65) and also tamperproof Torx assembly screws. This is a small but important detail in a smart factory where a mis-maintained sensor can have significant consequences – data is the lifeblood of Industry 4.0. Both EASYTEC and EVOTEC feature Torx assembly screws as standard (and optional IP 65 protection). EVOTEC (flat top) can be specified in five plan sizes (with a choice of heights) from 80 x 50 x 22 mm to 250 x 155 x 54 mm. The sloping top version (recessed or unrecessed) is available in two sizes: 200 x 124 x 45 mm and 250 x 155 x 54 mm.

CORNERING THE IOT/IIOT ENCLOSURES MARKET

Most plastic enclosures tend to be based around a square or rectangular plan size. But that does not make for easy corner mounting.

Despite this, wedge-shaped standard enclosures remain few and far between. There are plenty of sloping front housings available for the desktop market but surprisingly few true wedges that would

fit snugly in a 90° corner. And yet this has been a prime requirement for the surveillance market for decades – and is likely to be even more important over coming years as demand for IoT/IIoT enclosures increases. We're meeting this demand with SMART-CONTROL, a wedge-shaped enclosure that can also be mounted on flat surfaces. Its versatility provides the answer to one of the key dilemmas facing enclosure designers.

And that is this: on the one hand, a standard enclosure must suit a wide range of applications – otherwise it becomes a custom housing for a select few tasks. But conversely, the enclosure must suit clearly defined applications. If not, it risks being just another rectangular housing in an over-crowded market.

So how does a standard enclosure manage to be specialised and yet versatile at the same time? SMART-CONTROL accomplishes it by having a 'Plan B'. Yes, it is a corner enclosure for mounting high on walls – but it can also be specified for desktop roles. How? By incorporating some key design features such as a choice of front (recessed or non-recessed). The recess is important because it can accommodate a membrane keypad for desktop use (accessories include a desk stand). The non-recessed convex option is better suited to wall mounted sensor applications. And moulding the enclosures from ASA+PC-FR (instead of ABS) enables them to withstand the rigours of a factory. SMART-CONTROL is assembled with Torx screws. IP 65 protection is optional. The enclosures are available in two sizes: 142 x 81 x 46 mm and 173 x 101 x 59 mm.

CUSTOM VS CUSTOMISED IIOT ENCLOSURES

Regular readers of this blog will know that opting for a customised version of a standard enclosure is always quicker and more cost-effective than specifying a fully bespoke housing. EASYTEC, EVOTEC and SMART-CONTROL are available in off-white (RAL 9002) ASA+PC-FR as standard. Custom colours are available on request. Other customisation options include CNC machining, lacquering, printing, laser marking, décor foils, EMC shielding and installation/assembly.

Enclosures with adapter and wall suspension element

Wall mounted application with ergonomic operation area

Special colour and decor foil on demand

Wide format wall mounted enclosures

IN-BOX

The IN-BOX enclosure range made of UV-stabilised polycarbonate has been extended by 16 versions with transparent top parts (84 x 82 x 55 - 302 x 232 x 110 mm).

The transparent top part of the enclosure offers the advantage that display elements integrated directly on the PCB, e.g. LEDs for system status displays, devices and the like are visible from the outside. This saves additional assembly and material costs for the routing and wiring of components as well as the subsequent machining of the top part of the enclosure. In addition, the protection class remains unaffected.
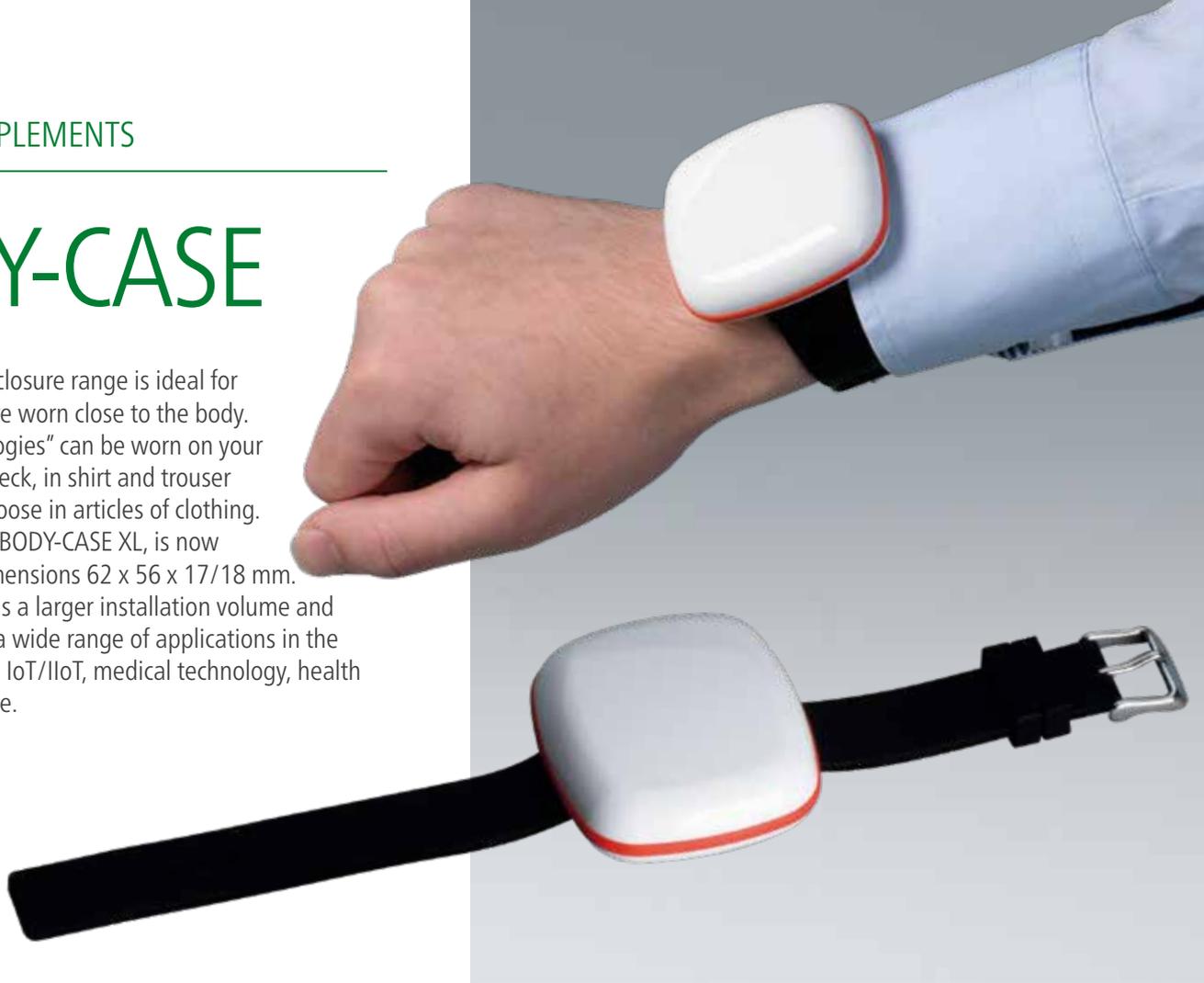
MINITEC EM

MINITEC enclosures are ideal for IoT/IIoT, but also for wearable USB solutions. The standard range has now been extended by six new intermediate rings for the MINITEC EM. An intermediate ring for using "Micro USB 5P, B Type SMT", another for "USB Type A" and a version without USB are each available in PMMA and ABS in black. The high versions are particularly suitable for mechanical processing for the creation of interfaces.

BODY-CASE

The BODY-CASE enclosure range is ideal for applications that are worn close to the body. "Wearable technologies" can be worn on your arm, around your neck, in shirt and trouser pockets or carried loose in articles of clothing. A new version, the BODY-CASE XL, is now available in the dimensions 62 x 56 x 17/18 mm. The new version has a larger installation volume and provides scope for a wide range of applications in the fields of wearables, IoT/IIoT, medical technology, health care and much more.

EVOTEC

The robust EVOTEC enclosure range is specially designed for modern desktop applications. A further version of the EVOTEC 150 has just been launched: in addition to the two available flat versions, there is now also a desktop version with a recessed operating area. The operating panel is ergonomically inclined by 12°, making it easier to enter and read off data. The new desktop version is available in the standard colour of off-white (RAL 9002) and its dimensions are 150 x 93 x 36 mm.

The EVOTEC enclosure family consists of a total of five sizes, either with a flat top part (sizes 80, 100, 150, 200, 250) or as a desktop variant (sizes 150, 200, 250). Thanks to the optional seal, the enclosures are ideal for harsh working environments.

NEW MANAGEMENT IN THE PRODUCTION DIVISION

The 31.07.2020 was one of those days when the future began!

After more than 30 years, our long-standing and highly respected production manager Helmut Böhrer took his well-deserved retirement. This signalled the end of a long era.

During his career at OKW Gehäusesysteme, Mr. Helmut Böhrer set up the current range of services in the field of individualisation from the very beginning. Starting off with 3 employees and 2 milling machines in 1993, the production division with its 80 employees is today a major mainstay of the company.

The services offered today include the customer-specific modification of standard plastic and metal enclosures and tuning knobs using our own equipment and customer tool construction facility as well as job order production to the highest industrial standards, even for small series – there is nothing comparable in breadth and depth under one roof, and in this combination, anywhere in the world.

After his dedicated pioneering work for OKW, Mr. Helmut Böhrer is now looking forward to a new phase in his life.

For the new production management, Ms. Jasmin Weber and Mr. Julian Henn, the future is now beginning as new managers of the entire production division.

SUCCESSFULLY CERTIFIED WITH ISO 9001:2015

At the beginning of September, we successfully passed the recertification audit in accordance with ISO 9001, Edition 2015.

The DQS auditors, who spent two days on the company premises, especially praised the internal catalogue of measures and the company's crisis management during the Corona crisis. In addition, positive emphasis was placed on the high motivation of the staff, trainee support and personnel development.

This successful certification once again confirmed that all of the relevant quality criteria for the development, production, finishing and distribution of enclosures/tuning knobs are observed and that the processes are conducted transparently and in compliance with the relevant standards.

In addition, OKW is also certified as an Authorized Economic Operator AEO/F,

and is also certified with GLS KlimaProtect.

You can download our certificates at:
www.okw.com - Downloads

TRAINEE "GET-TO-KNOW-YOU" DAY IN SEPTEMBER 2020

This year's trainee "Get-to-know-you" day took place at OKW's on Friday, 11.09.2020.

After a brief greeting, the trainees set off on a paper chase throughout the OKW grounds. This gave them the opportunity to get to know different departments and employees, but also each other. From applying a personalised decor foil to an enclosure, through using origami to form a turtle, to an obstacle course in the logistics department, the trainees spent a fun morning working as a team.

They had to solve many tricky riddles to win the prize. This was then shared afterwards in a spirit of camaraderie. The trainees rounded off the afternoon with a good meal in a relaxed atmosphere.

You can find further information on our traineeships at:
www.okw.com - Careers section

DISTANCE CONTROL

SOCIAL DISTANCING WARNING DEVICES FOR COMPANIES

In times of the Corona pandemic, companies are facing major challenges. The prescribed distancing rules must be followed in order to combat COVID-19. Employees must be protected from possible chains of infection and health risks, and meetings are to be avoided or held by video chat in the home office. Of course, this is not feasible for employees in incoming goods departments, warehouse logistics or production areas. But what is the most efficient way to maintain minimum distances and protect the entire company from large-scale quarantine measures? OKW offers numerous enclosures for implementing distance control.

Author: **Lisa Steinmetz**, Marketing at OKW Gehäusesysteme

Since the beginning of the pandemic, compliance with safety precautions and the observance of minimum distances has been a top priority in companies. In a worst case scenario, the entire company could otherwise be shut down. Not only the integrated technology but also the enclosure must be innovative and highly suitable for this. As the devices for social distancing have to be worn directly on the body for seamless control of the minimum distance, it is important to create particularly handy, small and preferably "wearable" units. OKW Gehäusesysteme offers optimum enclosure solutions for such applications thanks to the SOFT-CASE, BODY-CASE and MINITEC product ranges.

THE SOFT-CASE FOR EMPLOYEE PROTECTION APPLICATIONS

The SOFT-CASE has a practical format with gentle curves for a pleasant touch sensation. A total of four sizes (L x W x H) are available in the materials ABS or PMMA (infrared-permeable):

• S (82x51x14 mm)
• M (105x65x19 mm)
• L (117x73x24 mm)
• XL (150x92x28 mm)

For each size, an intermediate ring is available in different colours and materials:

• black in PMMA (infrared-permeable)
• lava, off-white and matt chrome-plated in ABS
• volcano in TPE (to provide protection IP 54 protection)

Particularly for use as a wearable, there is a belt / pocket clip for wearing the enclosure close to the body.

SOFT-CASE TO COMPLY WITH SOCIAL DISTANCING RULES

What specific contribution does the SOFT-CASE make to the battle against the Corona pandemic? Here is one way the SOFT-CASE could be used to ensure minimum distancing: The SOFT-CASE can be fitted with an optional bracket that is screwed to the back of the enclosure. This makes it possible to attach it to clothing, belts or wrist straps without hindering your work. Now all that is missing is an integrated technology to remind employees of the measures to be complied with.

THE WEARABLE BODY-CASE ENCLOSURE

The BODY-CASE enclosure range is one of OKW's standard wearable enclosures. The particularly small format allows applications on the body or close to the body to be realised with ease. There is a total of three sizes to choose from (L x W x H):

• M (50x41x16mm)
• L (55x46x17mm)
• XL (62x56x18mm)

Optional accessories are available for any size: a wrist strap, a lanyard and a fastening kit consisting of a clip and eyelet. The enclosures have the high IP 65 protection class and have a modern appearance thanks to their highly polished finish and matt TPV sealing ring (lava, vermilion).

SOCIAL DISTANCING WITH THE BODY-CASE

No matter in which area you are in a company, whether in shipping, in the warehouse, in production or simply at the coffee machine: employees are constantly meeting each other.

People do not always think of keeping enough distance from one another. In times of COVID-19, however, this is essential; the company must continue to function smoothly and, above all, with healthy employees.

We often hear that chains of infection cannot be determined precisely. This leads to several problems. One solution could be a contact tracker integrated in the BODY-CASE. Employees who are equipped with it and have been in contact with an infected person are now easy to identify. Protective measures can be taken immediately and an uncontrolled chain of infection stopped.

But not only as a tracker, the BODY-CASE can act just as well as a social distancing warning system. This could work as follows: the device registers other trackers in its immediate vicinity by radio, and triggers an alarm if employees do not maintain the required minimum distance. If this is insufficient, a warning tone sounds and the green status LED lights up red. This means that the warning system provides active assistance in complying with the world-wide social distancing recommendations.

Realtime tracking of employee activity would also be possible. This can be used to create maps for areas where employees have been active, so that these particular areas can be disinfected. In addition to the BODY-CASE, the MINITEC enclosure range is also ideal for such applications.

PERFECT COMPANION IN THE CORONA CRISIS, THE MINITEC

The MINITEC is available in two designs:
"MINITEC EDGE" in these sizes (L x W x H):

• S (52x32x15 mm)
• M (68x42x18/24 mm)
• L (78x48x20/24/26 mm)

And the "MINITEC DROP" in these sizes:

• S (51x32x13 mm)
• M (70x44x16 mm)
• L (84x53x19 mm)

Various accessories are available for the MINITEC: a lanyard, wrist strap and a carrying strap. A special feature is the variety of intermediate rings in different colours as well as heights and shapes. The enclosures are available from stock in ABS (UL 94 HB), or optionally in the infrared-permeable material PMMA Plexiglas.

As the examples show, OKW enclosures can make a decisive contribution to safe distance control.