PROGRAM OVERVIEW

PLASTIC ENCLOSURES
ALUMINUM ENCLOSURES
TUNING KNOBS
ACCESSORIES

Presented by:
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“ENCLOSURES ARE MORE THAN JUST PACKAGING FOR THE ELECTRONICS!”
OUR COMPETENT PARTNER

We have been setting creative standards since 1954. OKW and tuning knobs are terms that have gone down in history. In 1972 we presented the flat-pack case, the first standard enclosure made of plastic for the electronics industry.

Our approx. 100 committed workers as well as the Schneider family of entrepreneurs are proud of what they have achieved: a sound family-owned business which is now in its 3rd generation, a range of its own – made in Germany – with almost 3,000 articles in stock, a global logistics network, all conceivable technologies available in-house to individualize your products, and numerous design awards.

And where we ourselves cannot be present, we have our subsidiaries in 8 countries on 3 continents, our long-standing sales partners and of course reputed distributors working throughout the world for you, one of more than 25,000 customers of ours.

The management system we have introduced complies with the standard DIN EN ISO 9001 (DQS).

OUR PHILOSOPHY

Enclosures are more than just packaging. They give your product its face, they offer functions and their design is convincing. We support you with all of our standards, our knowledge and our individualization options.

This gives you your very own electronic package that will maintain its value and meet all of your customers’ requirements – for the sustained success of your device.
“ENCLOSURES, TUNING KNOBS AND SERVICES FOR YOUR INDIVIDUAL APPLICATION.”
OKW ENCLOSURES ARE INCOMPARABLE IN DESIGN AND, THANKS TO THEIR SOPHISTICATED TECHNICAL FEATURES, ARE THE IDEAL SOLUTION FOR COMFORT-ORIENTED USERS WHO ARE LOOKING FOR SOMETHING SPECIAL.

“INNOVATIVE TECHNOLOGY AND AESTHETIC DESIGN FOR ADVANCED EQUIPMENT.”
THE FINE DETAILS
When it is a question of impressing customers through reliability, ergonomics and attractiveness, the standard enclosures by OKW offer all advantages.

Our comprehensive range of products offers different types, sizes and versions. This makes it possible for us to present to you the whole variety of our system.

THE RIGHT CHOICE
Innovative technology and aesthetic forms for attractive device design.
System components specially geared to application scenarios.
Compatible with standardised displays, batteries, membrane keyboards, terminal blocks, plug headers, Eurocards, DIN rails, switch panel cutouts and much more.

Robust, installation-friendly design.
Excellent surface quality.
High-quality materials to match the applications in question.
Functional range of accessories for individual configuration.
Made in Germany.
“INNOVATIVE TECHNOLOGY AND AESTHETIC DESIGN FOR ADVANCED EQUIPMENT.”
OKW Gehäusesysteme has over 60 years’ experience in the development and production of tuning knobs. Today we can offer a wide range of modern and traditional tuning knob designs. Our latest tuning knobs combine special technical features with a contemporary appearance. This includes optional LED illumination, flush-fitting installation, a main body which is slightly inclined towards the internal axis, function-oriented marking elements, modern color selection etc.

The OKW range of tuning knobs is well tried and tested for rotary potentiometers with round and flattened shaft ends in accordance with DIN 41591 or 6/4.6 mm. The knobs are fitted using the tried and tested collet fixture, lateral screw fixing or simply by pushing them on. Depending on requirements, there are different types of knob: round knobs, wing knobs, spindle-shaped knobs, pointer knobs or simple rotary switches.

Different sizes and combinations offer a wide range of possible solutions.
MODIFICATIONS, FINISHING & SPECIAL SIZES

“ENCLOSURE SOLUTIONS CREATED TO MEET YOUR VERY OWN INDIVIDUAL WISHES.”
MODIFICATIONS & FINISHING

Look at our comprehensive standard range and select the product that best matches your design ideas, your components and the needs of your customers.

Then, simply tell us what you need to complete your product design in our housing. Together we will agree the necessary modifications - ideal in terms of price, quality and delivery time - to meet your specifications.

Processing and finishing techniques see pages 124-131.

SPECIAL MATERIAL

Depending on requirements and intended use, we can produce the enclosures in special colors, in flame-resistant material or in an environment-friendly bio-plastic. See Page 132.

SPECIAL SIZES

We can develop your customer-specific enclosure size on the basis of the standard design. With the help of existing 3D models, we can design practically any special size to meet your needs and requirements. See page 133.

BESPOKE ENCLOSURES AND TUNING KNOBS

And what if your requirements go beyond our standard range of services? No problem. 35 years of experience in the development of enclosures is on hand to help you realize your own individual product.

From conception or development to series-type production, we can offer you the solution you need, for any quantity. See pages 134-137.
## Enclosures for Your Applications

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CARRYTEC – Unique enclosure with integrated handle, large operating panel and plenty of room for interfaces.

INTERFACE-TERMINAL – Bottom enclosure part, front panel with tablet cutout and brackets, curved station made of aluminum.

SOFT-CASE with individual touch screen.

"MODERN SOLUTIONS FOR STANDARD-TABLETS AND INDIVIDUAL TOUCH SCREENS."
PACKAGING FOR TABLET COMPUTERS / TOUCH SCREENS

CUSTOMER-SPECIFIC SOLUTIONS

The following enclosures are highly suitable for the installation of standard tablet computers and individual touch screens:

**INTERFACE-TERMINAL (P. 47-51)**

With **aluminum front panel** with a polished, anodised surface finish. This reflects the high-quality appearance of the installed solution.

Or with the **top part made of ABS (UL 94 HB)** in the enclosure color of off-white (RAL 9002).

Three sizes: 6.4" (16 cm), 8.4" (21 cm) and 10.4" (26 cm).

**CARRYTEC (P. 38-41)**

Enclosure with handle in the colors off-white (RAL 9002) or lava.

Three sizes: 8.4" (21 cm), 10.4" (26 cm) and 13.4" (34 cm).

For small enclosures for the installation of touch screens, see also our website link "Advanced Search" > Display size.

On request we can also make the necessary cutouts for tablet computers and individual touch screens for you. Installation is effected from behind, outside the field of vision.

VISUALIZATION & DATA TRANSFER

In industrial equipment, tablets are more and more frequently assuming the functions of visualization and data transfer. But how can you combine company-specific know-how in measurement and control engineering with the features of a tablet, reliably, elegantly and attractively? On the basis of our standard range, we can offer you many different options for integrating both elements in a modern enclosure.

The installation of individual touch screens is also possible.
“ENCLOSURES MADE OF PLASTIC AND ALUMINUM.”
THE PRODUCT

BODY-CASE is the new “wearable” enclosure standard from OKW.

The enclosure design is perfect for so-called “wearable technologies”: on your arm, around your neck, in shirt and trouser pockets or loose in an article of clothing.

The BODY-CASE fulfills its function in the simplest way, without restricting the user in his or her activities and without being conspicuous.

YOUR ADVANTAGE

Modern appearance with highly polished surfaces and a matt TPE sealing ring.

Components and sensors that are worn on the body or close to the body can thus be accommodated elegantly and practically in a small space.

Simple and individual differentiation through the use of standard commercial watch straps (18 mm wide). Spring bar tool for fitting / removing the spring bars available as an accessory.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR

Plastic parts:
- ASA (UL 94 HB), traffic white (RAL 9016)

Sealing ring:
- TPE, vermillion (RAL 2002)
- TPE, lava

PROTECTION CLASS IP 65 / 67
YOUR ADVANTAGE

The aesthetic design supports the positive perception of the device, thus increasing user loyalty to the product.

Easy operation with the help of pushbuttons or touchscreen, at the press of a button and with the help of voice commands or gestures.

Internal power supply with round or button cells which are mounted directly on the PCB – alternatively, the use of a rechargeable battery with copper loop for charging the device inductively (see example on our website).

APPLICATIONS

Mobile data recording and data transmission, tracking and monitoring equipment, emergency call and notification systems as well as bio-feedback sensors in the fields of health care, medical technology, leisure and sports.

Also in industry, for example safety engineering, communications technology, stock and sales logging, measuring and control technology. Ideal for jobs where safety and permanent localisation are required.

OUTSIDE DIM. IN INCHES

2.165” x 1.811” x 0.669” (L x W x H)

NEW

COMFORTABLE TO WEAR ON THE BODY

YOUR ADVANTAGE

Top part with / without recessed surface for the protection of a decor foil or membrane keypad.

Wireless networking.

Optional accessories: wrist strap, fastening kit (clip, eyelet), spring bar tool, lanyard and hand strap.

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT
The new MINITEC cases convince users with their mini-dimensions and maxi-benefits.

Whether round your neck or round your wrist, MINITEC cases are your loyal companions and are always within easy reach. They are so small and light that they also fit into any trouser pocket.

Whether with orange, green, blue or volcano-colored intermediate rings or one colored, these MINITEC cases are the right enclosures for today’s personal electronics.

ENCLOSURE DESIGN
You have a choice between an organic "MINITEC DROP" shape or a more technical "MINITEC EDGE” design.

Different intermediate rings and accessories offer the necessary flexibility for individual use.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR
Bottom part / Top part:
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), lava
- PMMA*, black (RAL 9005)

Intermediate ring:
- TPE, lava
- TPE, orange
- TPE, green
- TPE, blue
- PMMA*, black (RAL 9005)
- TPE, off-white (RAL 9002)
- TPE, volcano
- ABS (UL 94 HB), black (RAL 9005)

*PMMA (plexiglass*)
APPLICATIONS
Many different types of remote control systems.
Mobile USB solutions. Data logger stick.
Specially made for clinic and social fields as well as in the household and in industry, e.g. emergency systems, monitoring and alarm equipment, radio remote control etc.

YOUR ADVANTAGES
Modern, flat styling.
Easy to wear, e.g. round your neck, or as a bracelet with wrist strap, on a key ring or on a belt (EL).
TPE ring for a pleasant touch sensation and as impact protection.
Also available in infra-red light-permeable material.
Recessed operating area for the protection of the membrane keypad or decorative foil.
MINITEC Edge also without recessed operating area.

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>MINITEC</th>
<th>L x W x H</th>
<th>DROP S</th>
<th>2.008 x 1.260 x 0.512</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DROP M</td>
<td>2.756 x 1.732 x 0.630</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DROP L</td>
<td>3.307 x 2.087 x 0.788</td>
</tr>
<tr>
<td>EDGE S</td>
<td>2.047 x 1.260 x 0.591</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDGE M</td>
<td>2.677 x 1.654 x 0.709</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDGE L</td>
<td>3.071 x 1.890 x 0.945</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 41
MINITEC DROP (sizes S and M) with intermediate ring in TPE.
MINITEC EDGE (size M) with intermediate ring in TPE.

For ordering information, drawings and 3D models visit www.okwenclosures.com
SMART-CASE

GOOD TO HOLD

THE PRODUCT

The idea of giving greater expression to ergonomic requirements was the starting point of the development of the SMART-CASE.

And so the design follows the touch sensation of the human being, thus facilitating natural sequences of hand movements.

Benefit from the outstanding balance between design and technical sophistication.

YOUR ADVANTAGES

Convincing ergonomics; unique design.

Ideal for remote controls, with cables or with a battery compartment.

Cable glands for sizes M, L and XL for cables ø 0.134“ - 0.232“. Cable gland already included.

MATERIAL / COLOR

Enclosure:
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), black (RAL 9005)
- PMMA*, black (RAL 9005)

Cable gland:
- TPE, volcano
- TPE, black

*PMMA (plexiglass*)

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS
Remote controls of all types, wireless or with cable connection.
Especially suitable for use in hospitals and social fields as well as in industry and households.
Measurement and control engineering.

YOUR ADVANTAGES
Optionally in material permeable to infra-red signals from stock. For utmost efficiency the front face is polished.
Recessed operating area to protect the membrane keypad (M/L/XL).
Fastening pillars and fixing supports for PCBs and components.
Comprehensive range of accessories.

APPLICATION PERFECTED

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>SMART-CASE</th>
<th>L x W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS</td>
<td>2.283 x 1.402 x 0.748</td>
</tr>
<tr>
<td>M</td>
<td>3.780 x 1.850 x 0.945</td>
</tr>
<tr>
<td>L</td>
<td>5.512 x 2.469 x 1.201</td>
</tr>
<tr>
<td>XL</td>
<td>6.614 x 2.929 x 1.394</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 65
Sizes L and XL with optional seal and without battery compartment.

For ordering information, drawings and 3D models visit www.okwenclosures.com
MATERIAL / COLOR

Enclosure:
ABS (UL 94 HB), off-white (RAL 9002)
ABS (UL 94 HB), lava

Cable gland:
TPE, volcano

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>UNIT</th>
<th>L x W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLOB</td>
<td>5.118 x 2.362 x 1.181</td>
</tr>
<tr>
<td>CONTROL</td>
<td>4.488 x 2.992 x 1.220</td>
</tr>
<tr>
<td>PANEL</td>
<td>7.874 x 6.496 x 1.417</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 54
With sealing (accessories).

THE PRODUCT

Inspired by the touch sensation, the design is entirely geared to the needs of the user.

The BLOB enclosure innovation surprises the user with an unheard-of wealth of potential applications and a truly sensuous 3D touch sensation.

The hands of the user intuitively "grasp" the functions of the enclosure. The fingers almost automatically find individual ways of holding the product naturally, guiding it exactly and operating it with a minimum amount of effort.

YOUR ADVANTAGES

Attractive, sophisticated product design for a perfect, secure grip.

High level of practical value thanks to a convincing touch sensation.

Simple, intuitive use.

Gentle and at the same time rugged.

High surface finish quality.

Recessed operating area for the protection of the membrane keypad.

For ordering information, drawings and 3D models visit www.okwenclosures.com
Following the principles of "Universal Design", BLOB supports applications that are flexible enough to meet the needs of a large number of people with different hand sizes and grasping volumes. Many different kinds of user-oriented applications, wireless or with cable. As self-sufficient or complementary units, or in a network with other units.

Ideal for diagnostics, therapy, laboratory, industry, office, household and leisure time.

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT
The first pocket size case with “wide-format” design. From now on, larger displays can thus be accommodated in a user-friendly small space. The case design makes it easy not only to read off the display but also to operate the unit.

The intermediate ring represents a further innovation in the SOFT-CASE. Different colors and materials allow individual designs and interesting combinations.

YOUR ADVANTAGES
User-friendly design. Ideal for miniaturised electronics developments.

The unique “wide format” offers a generous interface area as well as sufficient room for larger displays.

Intermediate rings (accessories) ensure more installation height; TPE version serves as a sealing ring and impact protection device for protection class IP 54 (enclosures without battery compartment only).

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR
Enclosure:
- ABS (UL 94 HB), off-white (RAL 9002)
- BIOGRADE®, off-white (RAL 9002)
- ABS (UL 94 HB), lava
- PMMA*, black (RAL 9005)

Intermediate ring:
- ABS (UL 94 HB), off-white (RAL 9002)
- BIOGRADE®, off-white (AL 9002)
- ABS (UL 94 HB), lava
- TPE, volcano
- PMMA*, black (RAL 9005)

*PMMA (plexiglass*)
APPLICATIONS
Remote control units of many different kinds.
Measurement and control engineering.
Control technology.
Medical and laboratory technology.
Peripheral and interface equipment.

YOUR ADVANTAGES
Optionally in material permeable to infra-red signals from stock.
Available with or without battery operation. Snap-in battery compartment lid; if required, this can be secured by a screw.
Recessed operating area for the protection of the membrane keypad.
Large interface panel on the long side.

SYSTEM VARIETY

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>SIZE</th>
<th>W x L x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>3.22 x 2.01 x 0.55</td>
</tr>
<tr>
<td>M</td>
<td>4.13 x 2.56 x 0.75</td>
</tr>
<tr>
<td>L</td>
<td>4.61 x 2.87 x 0.95</td>
</tr>
<tr>
<td>XL</td>
<td>5.91 x 3.62 x 1.10</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 54
With intermediate ring in TPE, without battery compartment (Sizes S, M, L — ABS and PMMA versions).

For ordering information, drawings and 3D models visit www.okwenclosures.com
DATEC-POCKET-BOX

THE PRODUCT
The pocket-sized DATEC-POCKET-BOX range offers a remarkable amount of technology in a minimum of space, as well as sturdy construction.

The sealings fitted in the upper and lower parts ensure greater protection against dust and water entry.

This means that the case can easily be used in rough conditions.

MATERIAL / COLOR
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), black (RAL 9005)
- PMMA*, black (RAL 9005)

*PMMA (plexiglass*)

OUTSIDE DIM. IN INCHES

Sizes | L x W x H
--- | ---
S | 3.346 x 1.811 x 0.630
M | 4.134 x 2.283 x 0.728
L | 4.724 x 2.560 x 0.866

PROTECTION CLASS IP 54
With sealing, already optionally prefitted in the top.

COMPACT TECHNOLOGY

YOUR ADVANTAGES
Plain surfaces for individual machining and interfaces.

Optionally in infra-red permeable material from stock. For utmost efficiency the case is equipped with a recessed, polished front face (M/L).

Recessed operating area for the protection of the membrane keypads.

Fastening pillars for PCBs and components.

For ordering information, drawings and 3D models visit www.okwenclosures.com
DATEC-MOBIL-BOX

MOBILE DATA COLLECTOR

THE PRODUCT
A series of cases tailored exactly to the field of mobile data collection has been developed under the name DATEC-MOBIL-BOX.

The cases combine robust functionality with a design that received an award from the iF (International Forum Design) in Hanover.

YOUR ADVANTAGES
Installation of standardized LCDs possible (contact addresses www.okwenclosures.com).

Display windows protect the fitted display modules and guarantee a high protection class IP 65 in the display area.

Plain surfaces for interfaces.

Recessed operating area in order to protect the membrane keypads.

With/without battery compartment.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), black (RAL 9005)

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>Sizes</th>
<th>L x W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>5.984 x 3.268 x 1.319</td>
</tr>
<tr>
<td>M</td>
<td>7.677 x 3.976 x 1.732</td>
</tr>
<tr>
<td></td>
<td>7.677 x 3.976 x 2.323</td>
</tr>
<tr>
<td>L</td>
<td>9.921 x 4.764 x 1.969</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 65
With sealing kit (accessory) and in versions II-IV only in conjunction with the adhesive foil for the display window.
THE PRODUCT
The new DATEC-COMPACT series of mobile enclosures has a compact and robust design.

The enclosures are ergonomic to hold and thus ensure fatigue-free operation.

Besides enclosures without sealing with protection class IP 41, there are also enclosures with foamed sealing with protection class IP 65 for outdoor use.

YOUR ADVANTAGES
3 sizes, with plenty of room for the electronics and all of your operating elements.

Enclosure with / without battery compartment, accessible from outside: three rechargeable batteries guarantee a reliable 3V power supply (size S: 3 x AAA, sizes M & L: 3 x AA).

Plain surfaces for interfaces.

Recessed operating area in order to protect the membrane keypads.

MATERIAL / COLOR
Plastic parts:
- ASA+PC-FR (UL 94 V-0), off-white (RAL 9002)
- ASA+PC-FR (UL 94 V-0), lava

UV-stabilised material, also suitable for outdoor use.

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS

Mobile data recording.
Measuring and control technology.
Control technology.
Medical and laboratory technology.
Environmental technology.
Outdoor.
...and much more.

YOUR ADVANTAGES

If needed, all-in solution for charging with integrated contacts.

Wall holder open from below to allow additional contacts.

SD cards/USB connectors can be inserted within the sealed compartment.

Corrosion-free stainless steel screws with reliable Torx heads.

There is a choice of two colours from stock, special colours are available on request.

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT

The round form of the head of the DATEC-CONTROL range of enclosures allows the installation of larger displays with graphics capability.

Particular attention was also paid to the ergonomics of the new design.

The cases are thus very comfortable to hold and easy to operate.

VISUALIZATION

Installation of standardized LCDs and graphics-capable displays possible (contact addresses www.okwenclosures.com). With this equipment, curves, diagrams, symbols and texts can easily be illustrated and the functions explained to the user so that they are easy to understand.

Display windows protect the fitted display modules and guarantee a high protection class in the display area in conjunction with the sealing kit for the enclosure. Easy assembly with included adhesive foil.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR

- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), black (RAL 9005)
DATEC-CONTROL MOBILE

FLEXIBLE POWER SUPPLY

OUTSIDE DIM. IN INCHES

| DATEC-CONTROL | L x W x H   |
|               |            |
| XS            | 7.874 x 2.283/3.701 x 1.555 |
| S             | 8.976 x 2.835/4.606 x 1.850 |
| M             | 9.567 x 3.543/5.118 x 2.362 |
| L             | 10.472 x 3.543/5.670 x 2.362 |

OPTIONAL BATTERY COMPARTMENT

| DATEC-CONTROL | battery options                                         |
|               |                                                       |
| XS            | 2 x 1.5 V mignon cells (AA)                            |
|               | 3 x 1.5 V mignon cells (AA)                            |
|               | 1 x 9 V flat battery (PP3)                             |
| S             | 4 x 1.5 V mignon cells (AA)                            |
|               | 1 x 9 V flat battery (PP3)                             |
| M/L           | 4 x 1.5 V mignon cells (AA)                            |
|               | 5 x 1.5 V mignon cells (AA)                            |

DATEC-CONTROL XS, S

Available without or with battery compartment. Easy battery replacement.

Lid of battery compartment optionally with latch and/or fixed by screws.

DATEC-CONTROL M, L

Available without/with battery compartment. For mounting the battery compartment there are two positions possible according to the requirements of your components configuration. Easy battery replacement. Station for charging electronics etc. available as accessories, see page 34.

In case of high power requirements, up to 5 AA batteries can be used.

Push-on end cover can also be permanently fixed if needed.

For ordering information, drawings and 3D models visit www.okwenclosures.com
In the M/L station there is even room for a battery compartment. The station can thus be used as an external battery charger provided it is suitably configured. Any number of battery packs are thus no longer a problem. Replaceable batteries guarantee long operating times for the device. This is an advantage when using it in the field.
APPLICATIONS
Mobile data collection and transfer via modem, ISDN or infra-red technology.
Measuring and control technology.
Digital control technology.
Machine building and construction units.

PROTECTED
The protectors take up the elegant design features of the basic enclosure and give the enclosures excellent impact protection. They also serve as surface protection for peripheral equipment, devices etc. Sizes M/L also have an individually adjustable shoulder strap.
Space for PCMCIA card (M/L), protected mounting – easy access.

PROTECTION CLASSES ENCLOSURES
With sealing kit (acc.) and, in version II, in conjunction with the adhesive foil for the display window, protection class IP 65 is possible with XS and S, as well as IP 54 with M and L.
In the XS/S enclosure set, an additional seal for the contacts is required.

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT

The HAND-TERMINAL is designed for electronic devices that require a robust hand-held enclosure.

Technical refinements in the design of the unit guarantee pleasant day-to-day work but also allow a firm grip whenever necessary.

A front panel version is available for the installation of complete pre-assembled electronics units.

YOUR ADVANTAGES

Robust enclosure made of impact-resistant, flame-resistant material.

Large, recessed area on the front side for the installation and protection of interfaces, screwed cable glands, plug-in connections etc.

Suitable for emergency stop switches and enable pushbuttons.

Available with or without battery operation.

Optimum weight distribution.

MATERIAL / COLOR

Enclosure:
- PC+ABS (UL 94 V-0), off-white (RAL 9002)
- PC+ABS (UL 94 V-0), black (RAL 9005)

Front panel:
- Aluminum, matt anodized

OUTSIDE DIM. IN INCHES

8.661 x 4.724 x 2.560

PROTECTION CLASS IP 65

In conjunction with the sealing kits available as accessories (enclosure, front panel)

For ordering information, drawings and 3D models visit www.okwenclosures.com
YOUR ADVANTAGE

Ideal for pre-assembled electronics packages, including those with integrated interfaces.

Also available with push-button for immediate and/or temporary operation.

Internal power supply with 2 x 1.5 V mignon cells (AA) or 1 x 9 V flat battery (PP3). Battery compartment for 2 x AA as well as cable glands and a set of strain relief for cable operation available as accessories. Simultaneous operation using standard/rechargeable batteries and cable possible.

THE PRODUCT

SENSO-CASE is ideal for ergonomically favourable single-handed operation, and offers many different possible applications.

Specific measuring, controlling and signalling tasks as well as the recording of data using opto-electronic components can be carried out easily, quickly and reliably.

Suitable for right handed and left handed operation.

THE WAY AHEAD

MATERIAL / COLOR

Enclosure:
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), lava

Elastic cap:
- TPE, orange

OUTSIDE DIM. IN INCHES
7.087 x 3.386 x 1.772

PROTECTION CLASS IP 41

For ordering information, drawings and 3D models visit www.okwenclosures.com
**CARRYTEC**

**THE PRODUCT**

Functional handle for many different tasks and situations.

In this way, CARRYTEC improves the manageability of large-volume equipment and supports users in their everyday work.

Depending on the application – indoor or outdoor – this innovative enclosure is available in different materials, e.g. high-impact, reinforced plastic material for tough conditions, colors etc.

**MOBILE**

The handle conveys a completely new carrying sensation. Located above the center of gravity of the enclosure, it guarantees a balanced product design and ergonomic handling. A soft insert ensures a perfect, non-slip grip. CARRYTEC is also characterized by an especially large surface area that is ideal for user interfaces.

Lateral recesses in the bottom part also give the user a secure grip when running wireless or wired applications.

**MATERIAL / COLOR**

- Enclosure/Handle pad:
  - ABS (UL 94 HB), off-white (RAL 9002)
  - Handle pad TPE, volcano
  - ASA+PC-FR (UL 94 V-0), lava
  - Handle pad TPE, orange

- Protection bag, shoulder strap (S, M): gray

- High-quality stainless steel Torx screws for the enclosure, the station and the holding clamp.

For ordering information, drawings and 3D models visit [www.okwenclosures.com](http://www.okwenclosures.com)
CHARGING / TRANSMITTING
Optional integration of charging and data transfer contacts.

The station offers adequate space for the electronics.

WALL APPLICATIONS
A station is available as an accessory to allow the unit to be placed securely on a wall.

Available with or without base plate.

The enclosure snaps securely into the station. It can be removed easily by pulling the handle.

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>CARRYTEC W x H x D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S</strong></td>
</tr>
<tr>
<td><strong>M</strong></td>
</tr>
<tr>
<td><strong>L</strong></td>
</tr>
</tbody>
</table>

* Size M: now also available with flat bottom part for the installation of tablets or the like that have reduced space requirements

PROTECTION CLASS IP 54
Enclosure with sealing (accessories).

For ordering information, drawings and 3D models visit www.okwenclosures.com
Ample installation depth and plenty of room for interfaces, yet slim appearance

Flat, impact-protected areas on the bottom part of the enclosure for installing interfaces, plug-in connectors, cable inlets and outlets, peripheral equipment etc.

Very large operating panel for push-buttons, membrane keypad, display, touch screen etc.

Easy transmission of data and charging current. Station with flange as accessory.

Sizes S and M: Optional protection bags for accessories, sensors etc. available. Cable connectors and interfaces can be pre-assembled, ready to use.

EASY TO OPERATE

DESK-TOP
The station can also to be used to be placed on a table.

The rubber feet included in the supply of the base plate ensure that the table-top version does not slip.

The enclosure snaps securely into the station.

ERGONOMIC
The operating area is inclined by 15° (with or without station). This facilitates ergonomic tilted positions.

A real asset when operating and reading – also in different distances or with different perspective.

For ordering information, drawings and 3D models visit www.okwenclosures.com
CARRYTEC HOLDING DEVICES

HOLDING DEVICES
Optional holding clamp available for mounting on round tubes and standard rails DIN EN ISO 19054.

The flat area on the back of the enclosure also allows it to be mounted on tripod or support arm systems, and the handle, since it is pointing downwards, allows fast positioning and alignment of the viewing and operating panels. Effortless swivelling, tilting, inclining, turning, pulling etc. – all this is no problem.

APPLICATIONS
Medical and laboratory technology. Wellness.
Peripheral and interface equipment. Communications technology. Safety engineering.
Data recording. Monitoring.
Plant and machine construction.
Measuring and control technology.
Agriculture and forest management.

ALL-ROUNDER
Thanks to its easy-to-hold shape adapted to human gripping habits, CARRYTEC offers a unique variety of possible uses, indoors and outdoors: mobile – desk-top – wall-mounted – rail-mounted – round tube – tripod – support arm.

The enclosures are particularly robust and easy to clean. Versions in reinforced plastic material can stand up to tough conditions in everyday use.

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT
A convex design to match the curves of the body is the characteristic feature of the ERGO-CASE range of cases.

As “bodycases” they for the first time make it possible for the user to wear the unit comfortably – whether on their arm, chest or waist.

The innovative design not only makes it easier to operate but also easier to read off.

YOUR ADVANTAGES
Ready for use with a large range of accessories, e.g. wrist strap, belt strap, strap eyelet, belt/pocket clip etc.

Available for operation either with or without batteries. Add-on battery compartments (M, L) with snap-in battery compartment lid; if required, this can be secured by a screw.

Size S with integrated supports. Optimum weight distribution.

Flat surface for individual interfaces on the front side.

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIIONS

Mobile data recording and transmission in the fields of medical, laboratory and measuring technology.

Storage and sales logistics.

Digital open and closed-loop control technology.

YOUR ADVANTAGES

Available either with flat or with high top part for individual installation configuration.

Recessed operating area in order to protect the membrane keypad.

Wall mounting with removal prevention. Easy transmission of data and charging current. Contacts as accessories.

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>ERGO-CASE</th>
<th>L x W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS</td>
<td>3.228 x 2.205 x 0.945</td>
</tr>
<tr>
<td>S</td>
<td>3.150 x 3.780 x 1.260</td>
</tr>
<tr>
<td>M</td>
<td>3.150 x 3.780 x 1.732</td>
</tr>
<tr>
<td>L</td>
<td>5.906 x 3.937 x 1.575</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 54

Sizes S, M and L with sealing/sealing kit (accessory), except size L with display panel.

For ordering information, drawings and 3D models visit www.okwenclosures.com
**THE PRODUCT**

The new CONNECT is ideal for wired applications. It consists of a convex enclosure shell and a flattened shell with an operating area, with identical cutouts for end top at either end.

The two case shells are snap together with a robust and reliable clip, which leads to time savings during assembly.

Cable glands and/or end parts are optionally available to complete the enclosure shells.

**YOUR ADVANTAGES**

The enclosures are available with identical and ergonomic profiles in three different lengths (2.992", 4.567", 6.142") in the color off-white (RAL 9002).

Through the absence of screws, the top side of the enclosure can be freely selected.

Two enclosure shell designs, convex and flat.

The two shells snap into each other, no screw connection.

Recessed operating area for protecting the membrane keypad or product label.

For ordering information, drawings and 3D models visit [www.okwenclosures.com](http://www.okwenclosures.com)
APPLICATIONS

- Data systems engineering.
- Network technology.
- Building services systems.
- Safety engineering.
- Medical and therapeutic applications.
- Measurement and control technology, and much more.

YOUR ADVANTAGES

- End panels and/or cable glands can be fitted.
- Integrated strain relief with the cable gland kit.
- There is enough room for the installation of compact displays, LEDs and USB connectors.
- The flattened enclosure shell has four attachment domes for mounting PCBs and built-in components.
- Holding clamp for round tubes up to ø 32 mm available as accessory (for case lengths 116 and 156).

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>CONNECT</th>
<th>W x L x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>76</td>
<td>2.126 x 2.992 x 0.866</td>
</tr>
<tr>
<td>116</td>
<td>2.126 x 4.567 x 0.866</td>
</tr>
<tr>
<td>156</td>
<td>2.126 x 6.142 x 0.866</td>
</tr>
</tbody>
</table>

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT

The name HAND-HELD-BOX stands for tried and tested, low-priced cases for measuring instruments of handy pocket size, e.g. continuity checker and volt meter, field intensity meter, digital thermometers etc.

The cases are particularly ergonomic and are also operator-friendly.

The applied individuality meets special requirements, depending on the suitability and application.

YOUR ADVANTAGES

Prepared for mounting of digital or analog display modules.

Display windows protect the integrated displays. Simple assembly with adhesive foil.

Snap-in battery compartment lid for quick battery exchange.

With or without switch cap (P).

Raised front area on the bottom part to accommodate plugs.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR

- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), black (RAL 9005)

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>Type</th>
<th>L x W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>5.709 x 3.150 x 1.437</td>
</tr>
<tr>
<td>M</td>
<td>5.709 x 3.150 x 1.516</td>
</tr>
<tr>
<td>N</td>
<td>7.087 x 3.937 x 1.732</td>
</tr>
</tbody>
</table>

PROTECTION CLASS < IP 40
APPLICATIONS

Unique variety of applications:
- Mobile – desk-top – wall mounted
- Peripheral and interface equipment. Office applications. Communications technology.
- Medical and laboratory technology. Wellness.

THE PRODUCT

The growing demand in the field of data visualization calls for innovative products tailor-made to meet the requirements of today’s users.

The new INTERFACE-TERMINAL meets all of the requirements of a modern man-machine interface. Here the user himself decides whether he would like to use the device as a mobile or as a stationary unit.

EXCITING AND VERSATILE

MATERIAL / COLOR

Plastic parts:
- ABS (UL 94 HB), off-white (RAL 9002)
Al front panel:
- Aluminum, anodized
Installation assembly kit:
- ABS (UL 94 HB), off-white (RAL 9002)
Choice of individual color / decor.

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>Size</th>
<th>L x W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>5.315 x 7.480 x 0.965</td>
</tr>
<tr>
<td></td>
<td>5.315 x 7.480 x 1.358</td>
</tr>
<tr>
<td>M</td>
<td>6.496 x 8.858 x 1.004</td>
</tr>
<tr>
<td></td>
<td>6.496 x 8.858 x 1.398</td>
</tr>
<tr>
<td>L</td>
<td>7.677 x 10.827 x 1.043</td>
</tr>
<tr>
<td></td>
<td>7.677 x 10.827 x 1.437</td>
</tr>
</tbody>
</table>

For ordering information, drawings and 3D models visit www.okwenclosures.com
MOBILE
Maximum mobility and independence.

With/without battery compartment (5 x AA), accessible from the outside, incl. protection against incorrect insertion as well as anti-rotation device.

User-friendly design with attractive flat styling in the handle area. Finger recesses on the underside ensure a secure grip.

Available with either flat or high bottom part for individual installation configurations, interfaces, cable inputs and outputs etc.

CHARGING / TRANSMITTING
Easy transmission of data and charging current. Contacts as accessories.

Case available either to hang in position (desktop application) or base with snap-in mechanism for secure desktop and wall mounted applications.

A flat wall suspension element as a base or for contacts is available.

The base offers adequate space for the electronics.

For ordering information, drawings and 3D models visit www.okwenclosures.com
BASE-MOUNTED VARIANTS

Individual desktop cases can be assembled from different components to match the component configuration.

Case can also be screwed to the base (desk). Assembly screws hidden on the underside.

Alternatively, the case snaps onto the base (desk/wall). If required, the unit can be secured by a latch lock.

ERGONOMIC

Operating panel inclined by 20°. Ergonomically ideal for operating and reading – whether vertically or horizontally mounted.

Rubber feet are included in the kit to ensure non-slip desktop positioning.

MAX. DISPLAY SIZES

<table>
<thead>
<tr>
<th>Size</th>
<th>Display Size</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>6.4”</td>
<td>16 cm</td>
</tr>
<tr>
<td>M</td>
<td>8.4”</td>
<td>21 cm</td>
</tr>
<tr>
<td>L</td>
<td>10.4”</td>
<td>26 cm</td>
</tr>
</tbody>
</table>

The INTERFACE-TERMINAL provides sufficient space for large-area touch screen displays. Thus allowing simple, intuitive and interactive operation of the controls on the touch screen. The advantage is a perfect navigation experience.

For ordering information, drawings and 3D models visit www.okwenclosures.com
RATIONAL WALL MOUNTING

The case can be mounted on the wall as a closed unit—vertical or horizontal orientation, depending on requirements.

(1) Direct wall mounting. The ergonomically inclined base offers plenty of space for connectors, electronics as well as wiring.

(2) Separate wall suspension element for low-profile wall mounting, suitable for cases without base. The wall suspension element is prepared for contacts (accessories) for transmitting data and current.

EFFICIENT

Unique “interface” between a stationary and a mobile component.

Assembly can be significantly simplified by predefined, snap-in interfaces.

You can also benefit from the ease of assembly when equipping and connecting up the interfaces; plug-in connectors also prevent wiring errors whenever servicing is required.

INTERFACE PROFESSIONAL

For ordering information, drawings and 3D models visit www.okwenclosures.com
**INSTALLATION**

Easy installation: Mount holders on the fully assembled enclosure. Place the enclosure with holders in the wall/front panel and align it. Mark and drill mounting holes. Then bolt the enclosure with the holders from the front and push on the design frame.

Depending on requirements, there are different installation options: enclosures with top part, glass panel or ABS front panel. In the raised top part, special functions can be integrated laterally, for example openings for acoustics.

---

**DESIGNS**

If the architectural standards are particularly high, or in historically valuable buildings, INTERFACE-TERMINAL enclosures can also be harmoniously integrated in walls or front panels. Installation in plant and machinery is also possible.

Our speciality: individual colors and a wide choice of finishes. Please select the relevant Part-No. and tell us your color or the standard finish you requirements.

---

**PRECISE INSTALLATION**

Vertical or horizontal orientation, depending on requirements.

---

For ordering information, drawings and 3D models visit [www.okwenclosures.com](http://www.okwenclosures.com)
ELEGANT CENTRAL CONTROL UNIT

THE PRODUCT

The new NET-BOX wall-mounted enclosure series has a fresh and exciting curved appearance.

The flat design of the enclosure gives you plenty of scope for installing your electronics, smaller displays and large-volume connectors. The design on the underside is also exciting: the wall mounting is on the right and left, and in between there is a surface for interfaces. When the wiring for the electronics has been completed, the connectors are elegantly covered by the top lid - all this without any visible screws. With these design features and the elegant colors of light gray/lava, the NET-BOX fits ideally into modern surroundings.

Thanks to the UV-stabilised V0 material used and the optional IP 65 protection class, this new series of enclosures can also be used for terminal units outdoors.

With the optional infill cover you also have the option of fitting a further PCB and visually closing the bottom part of the enclosure.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR

Top part, trim:
- ASA+PC-FR (UL 94 V-0), light gray (RAL 7035)

Bottom part, cover:
- ASA+PC-FR (UL 94 V-0), lava

High-quality stainless steel screws with Torx heads.
APPLICATIONS

- Data acquisition systems.
- Data systems engineering.
- Measuring and control technology.
- Central control units.
- Supervision terminals and access control.
- Medical technology.

YOUR ADVANTAGES

- 3 sizes – plenty of room for electronics and interfaces.
- Uniform appearance thanks to concealed screws and plug connections.
- Compact electronics compartment with two PCB levels.
- Easy, flush, three-point wall mounting.

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>NET-BOX</th>
<th>W x H x D</th>
</tr>
</thead>
<tbody>
<tr>
<td>T40</td>
<td>5.512 x 5.512 x 1.831</td>
</tr>
<tr>
<td>T80</td>
<td>7.087 x 7.087 x 1.909</td>
</tr>
<tr>
<td>220</td>
<td>8.661 x 8.661 x 1.988</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 65

With seal (accessory).

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT

You can hardly present your communication and network equipment in a more attractive way.

DIATEC is an attractive eye-catching design for living and working environments. But this innovative range of cases also offers many functional benefits.

All design features are perfectly integrated. Depending on your requirements, different equipment options and connections are possible.

YOUR ADVANTAGES

Modern, flat enclosure design, ideal for table top and wall mounting applications.

Plain, recessed area on the bottom part for installation and protection of interfaces, screwed cable glands, plug-in connections etc.

Easy, invisible wall mounting.

Recessed operating area on the top for the protection of the membrane keypads and operating elements.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR

Enclosure:
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), lava

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>DIATEC</th>
<th>W x L x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS</td>
<td>5.906 x 6.102 x 1.457</td>
</tr>
<tr>
<td>S</td>
<td>8.268 x 7.874 x 1.890</td>
</tr>
<tr>
<td>M</td>
<td>10.630 x 7.874 x 1.890</td>
</tr>
<tr>
<td>L</td>
<td>12.992 x 7.874 x 2.283</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 40
APPLICATIONS

Systems for data collection on the job.
Access and security controls.
Peripheral equipment for computers, data system engineering.
Measuring and controlling.
Medical field and laboratory technology.

DIATEC S, M, L

Separate slot-in panels can be used as interior partitions, for example to guard the electronics when changing batteries. This allows the complete pre-assembly of the electronics unit. The technician on site only has to mount the unit on the wall and connect up the relevant cables. Connection can be effected from the left and/or from the right-hand side. The actual case does not have to be opened to do this, only the snap-on side trims.

Accessory hinged lids, in case color or transparent plastic, protect the dialog zone.

For ordering information, drawings and 3D models visit www.okwenclosures.com
MEASURING, CONTROLLING, REGULATING

THE PRODUCT
The robust range of wall mounted cases with freely accessible terminal compartment for easy component mounting and wiring.

The models fitted with a transparent cover have an easy-to-operate closure system ensuring comfortable opening and closing.

These cases are particularly suitable for use in heating, air conditioning and ventilation technology, measurement and control technology, for machine and industrial controllers etc.

YOUR ADVANTAGES
Available either with or without transparent cover to protect the display and operating elements. Opening either on the right or on the left.

Alternatively available with front cover / front panel attachment (accessory).

Screw bosses and guides for the vertical and horizontal installation of printed circuit boards and mounting plates.

Direct wall mounting or external wall mounting brackets (accessory). Optional DIN rail mounting kit (accessory).

For ordering information, drawings and 3D models visit www.okwenlosures.com

MATERIAL / COLOR
ABS (UL 94 HB), light gray (RAL 7035)
Enclosure with transparent cover:
PC (UL 94 SV), light gray (RAL 7035)

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>W x H x T</th>
<th>W x H x T</th>
</tr>
</thead>
<tbody>
<tr>
<td>without transp. cover</td>
<td>with transp. cover</td>
</tr>
<tr>
<td>6.54 x 6.30 x 3.15/4.25</td>
<td>7.40 x 6.30 x 4.17/5.28</td>
</tr>
<tr>
<td>8.39 x 7.28 x 3.54</td>
<td>9.25 x 7.28 x 4.69</td>
</tr>
<tr>
<td>10.12 x 8.62 x 4.80</td>
<td>11.02 x 8.62 x 6.14</td>
</tr>
<tr>
<td>11.65 x 10.39 x 5.74</td>
<td>12.60 x 10.24 x 5.98</td>
</tr>
<tr>
<td>18.29 x 12.44 x 5.28</td>
<td>15.35 x 12.64 x 6.57</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 65
With transparent enclosure cover or front lid.
YOUR ADVANTAGES
Minimum effort with screwless case assembly. Save money, either during production or later with maintenance.

Easy wall mounting. Invisible wall mounting in pre-molded shafts within the base part. As an alternative, there are separate wall mounting brackets for exterior mounting available as accessories.

High bottom parts guarantee maximum surface area for fitting screw-in cable glands and interfaces.

THE PRODUCT
OKW took a completely new approach in the development of SNAPTEC.

Instead of a conventional screw connection, assembly is effected using innovative and rational snap-in technique.

A visual improvement as well. The four openings are only for unlocking the unit for service or adjustment work on the final product, and are almost invisible thanks to the covers.

For ordering information, drawings and 3D models visit www.okwenclosures.com
SMART BOX

THE PRODUCT
Your electronics cut a fine figure from the very first moment with the SMART-BOX.

Rounded surfaces create a pleasantly smart appearance which enhances the visual impact of your electronics. The cases also offer plenty of technical advantages.

YOUR ADVANTAGES
Convincing design. Flush-fitting trims mask the screw attachments; instead of light gray alternatively available in other colors (without UL 94 V-0) on request, e.g. to color-code the function or to match the case with your corporate image.

High-quality material ASA+PC (UL 94 V-0) for use in tough conditions. Also flame-retardant and self-extinguishing.

MATERIAL / COLOR
- ASA+PC (UL 94 V-0), light gray (RAL 7035)

High-quality stainless steel screws with high resistance to corrosion – even against aggressive media – through A2 stainless steel alloy.

For ordering information, drawings and 3D models visit www.okwenclosures.com
Applications

Ideal for design-oriented electrical and electronic applications, e.g. in heating, air conditioning and ventilation engineering, in control and system engineering, in safety technology etc.

Your Advantages

The cover retention device already included in the supply facilitates all installation and service work.

Optional lock accessory protects the unit from unauthorized opening.

Recessed operating area for the protection of the membrane keypad. Additional surface for labels on the underside.

Case feet (accessory), simply snap-in ensure non-slip desktop positioning.

System Variety

Outside dim. in inches

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.724</td>
<td>3.543</td>
<td>1.969</td>
</tr>
<tr>
<td>6.299</td>
<td>4.331</td>
<td>2.362</td>
</tr>
<tr>
<td>5.312</td>
<td>5.118</td>
<td>2.362</td>
</tr>
<tr>
<td>7.087</td>
<td>5.906</td>
<td>2.362</td>
</tr>
<tr>
<td>11.024</td>
<td>6.693</td>
<td>2.362</td>
</tr>
</tbody>
</table>

Protection Class IP 66

With sealing, already prefitted in the top.

For ordering information, drawings and 3D models visit www.okwenclosures.com
**THE PRODUCT**

Conceived as a dual case system, the ROBUST-BOX range offers a variety of installation options.

Both case shells are equipped with pre-molded threads. You as the user can now decide whether the flat or the high part of the case is to be used as the bottom part.

**YOUR ADVANTAGES**

Two standard materials (UL 94 HB): ABS – approved as a terminal mounting case or in Polycarbonate – a solid and robust case, with high heat resistance for use in adverse environments.

Easy-assembly construction. The case shells can be used as either top or base section.

The cover fixings are outside of the sealed area.

---

**MATERIAL / COLOR**

One-colored:
- ABS (UL 94 HB), light gray (RAL 7035)
- PC (UL 94 HB), light gray (RAL 7035)

Colored cover strips:
- PC (UL 94 HB), silver gray (RAL 7001)
- PC (UL 94 HB), red (RAL 3020)
- PC (UL 94 HB), yellow (RAL 1023)
- PC (UL 94 HB), green (RAL 6024)
- PC (UL 94 HB), blue (RAL 5017)

Rust-proof and captured fixing screws.

---

For ordering information, drawings and 3D models visit [www.okwenclosures.com](http://www.okwenclosures.com)
APPLICATIONS
This case system is especially suitable for a wide range of electric installations, e.g. heating, climate, ventilation, machine building and construction units.

But it can also be used in the electronics sector, e.g. as push-button case, for controllers, sensors, detection devices etc.

YOUR ADVANTAGES
There is an area recessed by min. 0.031” for the mounting of membrane keypads.

Colorful cover strips for coding (as an alternative to the standard version in light gray).

Usable as a wall mount case or desktop case.

Pour ordering information, drawings and 3D models visit www.okwenclosures.com
IN-BOX

THE PRODUCT
As an enclosure for terminal installations as well as for the electronics sector the IN-BOX program offers versatile options.

YOUR ADVANTAGES
9 base enclosures with high gloss surfaces and different heights.

Two standard materials: ABS (UL 94 HB) or PC (V-2).

Top parts in case color or transparent.

Efficient quick-action lock made of stainless steel.

Recessed operating area to protect the membrane keypads.

MATERIAL / COLOR
One-colored:
- ABS (UL 94 HB), light gray (RAL 7035)
- PC (V-2), light gray (RAL 7035)

With transparent cover:
- ABS (UL 94 HB), light gray (RAL 7035)
- Top part PC (V-2), transparent

Quick-action lock made of stainless steel.

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS

This case system is especially suitable for the wide range of electric installations, e.g. heating, climate, ventilation, machine building and construction units, security equipment etc.

But it can also be used in the electronics sector, e.g. as digital or analog instruments, sensor applications, interface enclosures, alarm systems etc.

YOUR ADVANTAGES

Direct wall mounting or exterior wall mounting with wall mounting brackets (acc.). If required an internal hinge can be supplied as accessory.

Optional security kit for use with lead tags prevents unauthorized opening or removal.

Accessory DIN rails and mounting plates for individual installations and configurations.

PROTECTION CLASS IP 66 / IP 67

With sealing already pre-fitted.

FOR ORDERING INFORMATION, DRAWINGS AND 3D MODELS VISIT WWW.OKWENCLOSURES.COM
THE PRODUCT

The DATEC-TERMINAL cases are uniquely designed to meet the requirements of stationary operational data collection.

A high degree of versatility is a characteristic of this range of cases.

Functional design and a wide range of accessories encourage universal use in the field of operational data collection, and also in other fields of application requiring wall mount and desktop enclosures.

YOUR ADVANTAGES

Mounting of standard pocket-size scanners.

With/without separate terminal section which is easily accessible.

Ergonomic shape. Operating area inclined by 20°. A real asset when operating and reading.

The cases are designed to save you time and money by being easy to assemble and service. The design is very attractive with all assembly screws being hidden from view.

MATERIAL / COLOR

Basic housing, covers, cover:

- ABS (UL 94 HB), off-white (RAL 9002)

Transparent cover:

- PC (UL 94 V-0), transparent

Profile plate:

- Extruded aluminum profile

Cover strips ABS, pebble gray

Front panel:

- Aluminum, matt anodized

For ordering information, drawings and 3D models visit www.okwenclosures.com
### OUTSIDE DIM. IN INCHES

**Without separate terminal section**

<table>
<thead>
<tr>
<th>Basic housing</th>
<th>W x D x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>5.118 x 7.087 x 3.386</td>
</tr>
<tr>
<td>SL</td>
<td>10.394 x 7.087 x 3.386</td>
</tr>
</tbody>
</table>

**With separate terminal section**

<table>
<thead>
<tr>
<th>Basic housing</th>
<th>W x D x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>6.614 x 10.709 x 3.976</td>
</tr>
<tr>
<td>L</td>
<td>11.890 x 10.709 x 3.976</td>
</tr>
</tbody>
</table>

**PROTECTION CLASS IP 54**

Only in combination with cover and closed lid.

---

### YOUR ADVANTAGES

- Invisible wall mounting with unauthorized removal prevention.
- Screw pillars for PCB mounting are suitable for mounting eurocards 3.937" x 6.299" or double eurocard sizes (S, SL and L).
- Flat area for machining and cutouts.
- Recessed operating area for the protection of the membrane keypad.

---

### APPLICATIONS

- Systems for data collection on the job and machines.
- Data system engineering.
- Access and security controls.
- Medical technology.
- Measuring, controlling, regulating.
- Heating and air conditioning technology.

For ordering information, drawings and 3D models visit [www.okwenclosures.com](http://www.okwenclosures.com)
THE PRODUCT

Modern, attractive, flat styling characterises the COMTEC family of cases. This makes desktop units easy to operate, and applications on the wall – then rotated by 180° – can be optimally mounted for the user.

The new “Softline” design gives the cases a high-quality appearance for housing equipment that needs to look good.

YOUR ADVANTAGES

Ergonomic design. A real asset when operating and reading.

Large area for interfaces at the top. Ideal for D-sub-plug connectors, round connectors etc. The interfaces may be permanently mounted on the board.

Flat or raised bottom part for large-volume components.

MATERIAL / COLOR

- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), black (RAL 9005)

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>COMTEC</th>
<th>W</th>
<th>D</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 F</td>
<td>4.724</td>
<td>5.906</td>
<td>0.787/1.685</td>
</tr>
<tr>
<td>120 H</td>
<td>4.724</td>
<td>5.906</td>
<td>1.575/2.472</td>
</tr>
<tr>
<td>150 F</td>
<td>5.906</td>
<td>7.874</td>
<td>0.787/2.028</td>
</tr>
<tr>
<td>150 H</td>
<td>5.906</td>
<td>7.874</td>
<td>1.575/2.815</td>
</tr>
<tr>
<td>200 F</td>
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<td>5.906</td>
<td>0.787/1.685</td>
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<tr>
<td>200 H</td>
<td>7.874</td>
<td>5.906</td>
<td>1.575/2.472</td>
</tr>
<tr>
<td>290 H</td>
<td>11.417</td>
<td>7.874</td>
<td>1.732/2.972</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 40

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS

Systems for data collection on the job and machines.

Communications equipment. Access and security controls and data systems engineering.

Medical field and laboratory technologies.

Measuring and controlling.

Industrial regulation.

YOUR ADVANTAGES

Version I with closed bottom part. In version II the battery compartment can be fitted in the bottom parts (150 F/H, 200 F/H). Lid of battery compartment snapped-on.

Recessed operating area for the protection of the membrane keypad.

Self-adhesive case feet ensure reliable desktop positioning.

WALL MOUNTED APPLICATIONS

The ergonomically inclined front panel allows the case to be mounted within the operator’s reach. Displays and readouts are easily legible for all users involved – be it the mechanical engineer, the operator etc.

Wall suspension element for rational wall mounting (accessory).

TABLE TOP OR WALL MOUNTED

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT
The OKW DESK CASE range covers many different fields of application.

Choose a case that will fully meet your specific requirements in terms of size and tilt of the control panel.

Front panel versions are available for the installation of complete prefabricated electronics units.

YOUR ADVANTAGES
Various angles of inclination for the control panel, depending on requirements. Practical for operating and reading off the unit.

Suitable for numeric keypads and membrane keypads.

Prepared for the assembly of eurocards 3.937" x 6.299" (138/190/190F/190H).

Versions with ample space for large assemblies.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR
DESK CASE 138, 190 (one-colored):
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), black (RAL 9005)

DESK CASE 190 F/H, 220 & Combi desk case:
- Bottom part
  - ABS (UL 94 HB), pebble gray (RAL 7032)
- Top part, attachment
  - ABS (UL 94 HB), off-white (RAL 9002)
- Front panel
  - Aluminum, matt anodized

PROTECTION CLASS < IP 40
APPLICATIONS

Systems for data collection on the job and machines.

Communications equipment. Access and security controls and data systems engineering.

Medical field and laboratory technologies.

Measuring and controlling.

Industrial regulation.

YOUR ADVANTAGES

Raised section giving space for easy installation of cable grommets and plug connectors (220, COMBI DESK CASE F/H).

Version with attachment for digital readouts, measuring equipment, encoders etc. (COMBI DESK CASE H).

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>Types</th>
<th>Width (W) x Depth (D) x Height (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DESK CASE</td>
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<tr>
<td>138</td>
<td>7.480 x 5.433 x 1.260/1.850</td>
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<tr>
<td>190</td>
<td>7.480 x 5.433 x 1.240/1.820</td>
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<tr>
<td>190 F</td>
<td>7.480 x 5.433 x 1.240/2.756</td>
</tr>
<tr>
<td>190 H</td>
<td>8.661 x 6.142 x 2.047/3.937</td>
</tr>
<tr>
<td>COMBI DESK CASE F</td>
<td>8.976 x 8.504 x 1.969/2.992</td>
</tr>
<tr>
<td>COMBI DESK CASE H</td>
<td>8.976 x 8.504 x 1.969/4.961</td>
</tr>
</tbody>
</table>

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT

The new UNITEC range of cases is characterized by two operating panels with different inclinations at right angles to each other.

Depending on the application, these can be used for operating and/or reading-off purposes, thus allowing simultaneous applications, for example a doctor face to face with a patient.

YOUR ADVANTAGES

Modern appearance, ideally suited for desk-top or wall mounting.

Generously dimensioned dialog fields (72°/18° inclination). Ideal for large displays, touch screen surfaces, membrane keypads (0.055” depth), graphic overlays (0.024” depth), interfaces etc.

Pushbuttons, switches and display elements can be ergonomically operated and read off.

MATERIAL / COLOR

ABS (UL 94 HB), off-white (RAL 9002)

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>UNITEC</th>
<th>W x D x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>4.921 x 6.969 x 2.717/0.866</td>
</tr>
<tr>
<td>M</td>
<td>5.827 x 8.268 x 3.150/0.984</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 40

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS

Data acquisition systems.
Building installations.
Data systems engineering. Communication.
Analysis, diagnostics and therapy applications.
Measuring and control technology.
Industrial regulation.

MORE INDIVIDUALITY

Individual electronics cases can be created through the use of an all-round digital graphic overlay specially tailored to illustrate your corporate identity (top and front parts recessed by 0.024").

On request we can print and mount digital graphic overlays for you in our own Service Center.

YOUR ADVANTAGES

Optional component mounting. Printed circuit boards can be positioned in the bottom, top and front parts. Since the operating panels are positioned at right angles to each other, it is also possible to install electronics and interfaces as complete ready-made packages.

Single or dual operating areas.

With/without battery operation 3 x AA / 5 x AA. Battery compartment lid snap-in and/or screw-on.

Hidden wall mounting.

PERFECTLY SET FOR THE WALL

For ordering information, drawings and 3D models visit www.okwenclosures.com
THE PRODUCT
The MEDITEC family of cases is characterized by convincing design features.

Mitred corners emphasise the modern enclosure design and technical refinement at the same time.

A clear form language allows universal application; distinctions can easily be implemented through layout or color design.

YOUR ADVANTAGES
High stability due to internal reinforcing ribs.

Enclosure design allows easy assembly.

Ergonomic sloping control panel with recessed area for protecting a membrane keypad or label. When using one side panel, the front cover ensures optimum closure of this gap.

Side trims are attached laterally, optionally available without / with ventilation.

MATERIAL / COLOR
ABS (UL 94 HB), off-white (RAL 9002)
Trims:
ABS (UL 94 HB), off-white (RAL 9002)
ABS (UL 94 HB), lagoon
Individual choice of colors on request.

VERSATILE ELEGANCE

Ergonomics
The ergonomically inclined sloping control panel facilitates viewing of the display instruments as well as operating.
The handle bar gives desktop applications an ergonomically favourably angle. It can also be used for carrying the device, see page 74.

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS

Medical field and laboratory technology.
Feedback control.
Measuring and control technology.
Communication and network technology.
Data collection.

YOUR ADVANTAGES

Eurocard sizes: single, double and extended.
Recessed vertical guide positions for fitting additional mounting plates behind the front panel.
Variable heights. The height can be increased by 1.969" when using the side panels (accessory). For additional heights two side panels can be assembled with one connector.
Plastic front and rear panels easy to machine.

COMPATIBLE

For ordering information, drawings and 3D models visit www.okwenclosures.com

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>MEDITEC</th>
<th>W x D x H</th>
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<tbody>
<tr>
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<td>6.299 x 7.874 x 2.913</td>
</tr>
<tr>
<td></td>
<td>6.299 x 7.874 x 4.882</td>
</tr>
<tr>
<td>E 220</td>
<td>6.299 x 10.236 x 2.913</td>
</tr>
<tr>
<td></td>
<td>6.299 x 10.236 x 4.882</td>
</tr>
<tr>
<td>D 160</td>
<td>11.417 x 7.874 x 2.913</td>
</tr>
<tr>
<td></td>
<td>11.417 x 7.874 x 4.882</td>
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<tr>
<td>D 220</td>
<td>11.417 x 10.236 x 2.913</td>
</tr>
<tr>
<td></td>
<td>11.417 x 10.236 x 4.882</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 40
A special asset is the application with ergonomically inclined sloping control panel. This allows the case to be mounted within the operator’s reach. Displays and readouts are easily legible for all users involved – be it the mechanical engineer, or the operator etc.

But even without a sloping control panel, MEDITEC still looks good as a wall-mounted enclosure, e.g. for small networks.

For mobile applications the MEDITEC enclosures can be fitted with a handle bar. The handle bar ensures a perfect grip as well as an ergonomic handling located above the center of gravity of the enclosure.

If necessary, the adjustment mechanism allows the user to set a practical angle in situ, in increments of 30°.
LARGE INTERFACE PANEL

THE PRODUCT
Generously dimensioned, comfortable control and interface panels distinguish the MOTEC desktop device from conventional systems.

Different sizes and combinations offer a wide selection of attractive cases. Protection class IP 40.

Thanks to an innovative snap-in system, you can minimise your assembly work and at the same time improve the visual attractiveness of your products.

YOUR ADVANTAGES
Modern and fashionable design.

Different heights of cases for individual configurations.

Guide grooves for the vertical insertion of partitions and printed circuit boards.

Sloping control panel with recessed area to protect membrane keypads available as an accessory.

High-quality material ABS, optionally in UL 94 HB or UL 94 V-0 flame-resistant.

For ordering information, drawings and 3D models visit www.okwenclosures.com
EVERYTHING SNAPS INTO PLACE

THE PRODUCT
The EURO CASE is extremely assembly-friendly.

The case shells, side panels and snap-in panels all have a strong clip together mechanism, without a single screw.

It is possible to customize the EURO CASE to your own corporate appearance by selecting the side panels and snap-in panels in your company’s colors.

YOUR ADVANTAGES
Minimum amount of assembly required thanks to the special OKW snap-lock mechanism.

Injection-molded reinforcing ribs ensure that these conveniently light cases have a high degree of torsional resistance and rigidity.

Variable case heights (1 HE to 6 HE) for individual installation configuration – depending on space requirements.

Any problems in ventilation are solved by snap-in panels with ventilation slots.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR
Case shell, snap-in panel, tilt foot:
- ABS (UL 94 HB), off-white (RAL 9002)

Side panel:
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), pepple gray (RAL 7032)

Front panel:
- Aluminum, matt anodized

OUTSIDE DIM. IN INCHES
<table>
<thead>
<tr>
<th>Type</th>
<th>W x D x H</th>
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</thead>
<tbody>
<tr>
<td>42 TE</td>
<td>10.236 x 9.843 x 2.126-5.630</td>
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<td>53 TE</td>
<td>14.449 x 9.843 x 2.126-10.886</td>
</tr>
</tbody>
</table>

PROTECTION CLASS < IP 40
YOUR ADVANTAGES

Vertical and horizontal PCB mounting – a special advantage of the OKW LUX CASE range is achieved by the specially designed card guide. The card guide is fitted into the center section and can be moved horizontally. The assembled PCBs can be simply inserted from the front. For this, the PCB is assembled with the front panel. It is simple to use and the display instruments are easy to read off, thanks to the fold-out tilt feet or sturdy tilt bar (size 230 only). May also be used as a carry handle.

MATERIAL / COLOR

- Bottom and top part, tilt foot: ABS (UL 94 HB), off-white (RAL 9002)
- Middle section: ABS (UL 94 HB), pepple gray (RAL 7032)
- Front panel: Aluminum, matt anodized

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>Type</th>
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<tr>
<td>190</td>
<td>5.827 x 7.480 x 2.638</td>
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<tr>
<td>230</td>
<td>6.811 x 9.055 x 5.354</td>
</tr>
</tbody>
</table>

PROTECTION CLASS < IP 40

For ordering information, drawings and 3D models visit www.okwenclosures.com
MATERIAL / COLOR
Enclosure: ABS (UL 94 HB), off-white (RAL 9002)
Front and rear panel: Aluminum, matt anodized
PMMA, red (plexiglass*)

PROTECTION CLASS IP 65
For closed versions (G) without battery compartment when using the sealing kit (accessory).

THE PRODUCT
The comprehensive SHELL-TYPE CASE range is available in different sizes, heights and types.

Simply choose the case that meets your special requirements.

YOUR ADVANTAGES
A high degree of rigidity and tight fitting as a result of the tongue and groove joint.

Flat design for small-volume components. Higher versions for larger components.

Guide ridges for vertical mounting of partitions and PCBs. Fastening pillars in top and base part.

On request the shell-type cases are also available with EMC aluminum metallisation. Contacting can be improved using the available contact strips (accessories).

1001 POSSIBILITIES

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS

- Measuring and control technology.
- Medical field and laboratory technology.
- Peripheral devices and interfaces, switchboxes, modems.

YOUR ADVANTAGES

- 3 different case types:
  - V: open front, closed rear.
  - O: open front, open rear.
  - G: closed front, closed rear.

- Front and rear panels in aluminum or PMMA red (plexiglass*) available as accessories.

- Without/with battery compartment.

- Closed versions with flat top parts (type G), also with recessed area to protect the membrane keypad.

OUTSIDE DIM. IN INCHES / TYPES

<table>
<thead>
<tr>
<th>L x W</th>
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<td>0.866 1.299* 1.772*</td>
<td>V, G</td>
<td>–</td>
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<td>V, G</td>
<td>1x9 V</td>
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<td>6.220 x 3.740</td>
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<td>V, O, G</td>
<td>2xAA/1x9 V 4xAA/2x9 V</td>
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<tr>
<td>7.480 x 5.433</td>
<td>1.77/1.79* 2.677 3.583</td>
<td>V, O, G</td>
<td>4xAA/2x9 V</td>
</tr>
</tbody>
</table>

*depending on case versions

V = open front; O = open front, open rear; G = closed front, closed rear

For ordering information, drawings and 3D models visit www.okwenclosures.com
PROFESSIONAL ASSEMBLY

THE PRODUCT
Screwing cases together is a thing of the past – TOPTEC makes it possible. The snap-in system really is revolutionary, since it does not only lead to savings in the assembly of the cases.

The PCBs can be fitted on both sides with interfaces that project beyond the actual width of the case. The previous assembly of the connectors on the case wall and the connection cable for the PCB can now be dispensed with.

YOUR ADVANTAGES
Aesthetic design for indoor applications as a desk top or wall mounting system.

Simple screwless case assembly.

Base part with lateral opening for quick and easy equipping from all sides.

For the first time electronic parts and interfaces can be installed as a complete package.

MATERIAL / COLOR
Bottom and top part:
- ABS (UL 94 HB), off-white (RAL 9002)

End panels:
- ABS (UL 94 HB), pebble gray (RAL 7032)

One-colored:
- ABS (UL 94 HB), black (RAL 9005)

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS
Universal case for electronic and electro-technical devices. For example, for monitoring purposes as check instruments, signalling equipment and control systems, medical field and laboratory technology, computer peripherals, automation etc.

YOUR ADVANTAGES
Ideal wall mounting without changing the case design due to hidden wall suspension element with snap-in locking device.

Easy assembly on DIN rails.

Removable end panels, available with or without ventilation slots.

High and flat top part.

Recessed control area to protect membrane keypads.

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>TOPTEC</th>
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<tr>
<td>123 H</td>
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<tr>
<td>154 F</td>
<td>6.063 x 3.307 x 1.496</td>
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<tr>
<td>154 H</td>
<td>6.063 x 3.307 x 2.205</td>
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<tr>
<td>194 F</td>
<td>7.638 x 4.528 x 1.811</td>
</tr>
<tr>
<td>194 H</td>
<td>7.638 x 4.528 x 2.677</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 40

For ordering information, drawings and 3D models visit www.okwenclosures.com
The aluminum frame has been blasted from all sides with glass beads, then anodized in silver, and picks up points for its exceptional stability and heat dissipation as well as its high quality appearance.

The ASA+PC-FR plastic used is characterized by high flame resistance and very good UV protection. The top and bottom parts, battery compartments/compartment lid, connecting parts and the optional wall mounting are made of reinforced polyamide.

For ordering information, drawings and 3D models visit www.okwenclosures.com
Battery compartment with battery clips as accessories, with 2/3 or 4 x AA, depending on the size of the enclosure.

Alternatively, AA and AAA battery clips or button cell holders as accessories to mount the batteries directly on the board.

YOUR ADVANTAGES

36 enclosures with plenty of room for your electronics and your operating elements.

Recessed surface in the top part for decor foils or membrane keypads.

Non-slip enclosure feet cover the stainless steel screws and ensure stable positioning for desk-top applications.

Optional wall mounting as an accessory.

OUTSIDE DIM. IN INCHES

<table>
<thead>
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<tr>
<td>R100</td>
<td>Ø 3.94</td>
<td>1.57/2.76/3.94</td>
</tr>
<tr>
<td>R120</td>
<td>Ø 4.72</td>
<td>1.57/2.76/3.94</td>
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<tr>
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<td>Ø 5.51</td>
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</tr>
<tr>
<td>O180</td>
<td>7.09 x 3.54</td>
<td>1.57/2.76/3.94</td>
</tr>
<tr>
<td>O200</td>
<td>7.87 x 3.94</td>
<td>1.57/2.76/3.94</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 40

For ordering information, drawings and 3D models visit www.okwenclosures.com
INSTALLATION PLANNING

YOUR ADVANTAGES

Plenty of surface space for interfaces, no inclined surfaces, easy assembly.

PCBs can be mounted in the top and bottom parts. Further mounting plates can be inserted at the side.

Extender kit to extend the board attachment pillars as an accessory. When there is a battery compartment in the bottom part, this makes it possible to mount a board above the battery compartment.

Cables of up to ø 0.157" can be routed out of the bottom part through an additional hole, e.g. for charging cables.

Alternatively, a flat cable with a thickness of up to 0.059" can also be routed out of the cover, for example for a network connection. To do this, simply remove the narrow ridge on the cover.

Opening in the bottom part for the use of a battery compartment or for access to the interior, e.g. for a memory card or batteries that are mounted directly on the board.

For ordering information, drawings and 3D models visit www.okwenclosures.com

ENCLOSURE SUPPLY

1 top part, bottom part and cover each.
1 Aluminum profile.
1 Assembly kit, consisting of 4 non-slip enclosure feet, 1 screw for the battery compartment lid, 4 connectors and 4 enclosure screws.
APPLICATIONS
Data systems engineering.
Network technology.
Building services systems.
Safety engineering.
Medical and therapeutic applications.
Measurement and control technology, and much more.

MODIFICATIONS AND FINISHING
On request we can do the following work for you:
Mechanical processing for your interfaces (aluminum and plastic).
Special coloring for the plastic parts from 1 piece.
Digitally printed foils & membrane keypads.
Individual lettering and printing.
Engravings.
Aluminum frame, anodized black.

SPECIAL LENGTHS
Special lengths for aluminum frames available on request – in increments of 0.197".
Maximum length of the aluminum profile 11.811". This results in a maximum enclosure height of 12.205".

For ordering information, drawings and 3D models visit www.okwenclosures.com
FLAT-PACK CASE

THE PRODUCT

OKW FLAT-PACK CASES represent low-priced housings for your electronics.

The bottom parts are open at the sides and are thus particularly useful for all installation and service work.

Different sizes, heights and versions make functional and practical applications possible.

TYPES

With low (N) and high (H) top part. Special version with handle bar for convenient canting or easy carrying.

With ventilation slots for components dissipating high heat (189 L).

With slots on the top part for miniature appliances with sound signal (120 S).

Screwless assembly with separate front panel in aluminum, easy machining. Control elements and lettering are protected through a raised edge on the case (type A).

MATERIAL / COLOR

Top part / bottom part:
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), pebble gray (RAL 7032)

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>Type</th>
<th>L x W</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
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<td>4.72 x 2.56</td>
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<td>150 N/H</td>
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<td>189 N/H</td>
<td>7.44 x 4.33</td>
<td>2.36 / 2.76 / 3.82 / 4.72</td>
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<tr>
<td>120 S</td>
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<td>189 L</td>
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<tr>
<td>210 A</td>
<td>8.27 x 4.92</td>
<td>2.76</td>
</tr>
</tbody>
</table>

For ordering information, drawings and 3D models visit www.okwenclosures.com
Simply and extremely functional solution for your electronics.

German version also with integrated socket.

Robust and impact-resistant. The ball-thrust hardness test is performed at 125°C.

Fastening pillars for the PCB mounting, suitable for self-tapping screws (set with 4 pieces supplied with the case).

Protection class < IP 40

**MATERIAL**
Flame-resistant material (UL 94 V-0).

**COLOR**
Top part off-white (RAL 9002), Bottom part pebble gray (RAL 7032).

**DIM. IN INCHES**
<table>
<thead>
<tr>
<th>L x W x H</th>
<th>D</th>
<th>4.72x2.56x2.17</th>
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</thead>
<tbody>
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<td></td>
</tr>
<tr>
<td>F</td>
<td>3.94x1.97x1.57</td>
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</tr>
<tr>
<td>D</td>
<td>4.72x2.56x2.56</td>
<td></td>
</tr>
</tbody>
</table>

**MATERIAL**
Plug section in flame-resistant materials (UL 94 V-0).

**COLOR**
One-colored off-white (RAL 9002) or black (RAL 9005).

**DIM. IN INCHES**
| ø 4.33 x 1.18 |
| ø 4.33 x 1.50 |
| 4.33 x 3.94 x 1.50 |
**THE PRODUCT**
The ART-CASE series of cases with the basic shapes “round”, “square”, “oval” and “edged” sets new standards in design and function. Different versions of the bottom and top parts as well as the base create interesting combinations and geometrical arrangements – for first-class visual impact!

**LEVEL / INCLINED**
Ergonomically shaped case design. Practical for operating and reading-off.

Base 30°/55° for different inclinations.

Flat top part with recessed operating area for the protection of the membrane keypad.

Available without/with battery operation. Battery compartment for 2 x AAA batteries as accessory or integrated supports for 2 x AA in the plain base.

**MATERIAL / COLOR**
- ABS (UL 94 HB), off-white (RAL 9002)
- ABS (UL 94 HB), black (RAL 9005)

For ordering information, drawings and 3D models visit [www.okwenclosures.com](http://www.okwenclosures.com)
APPLICATIONS

Ideal for indoor electrical and electronic applications, e.g. for transmission and reception units in building services management systems and building installations.

Also in medical technology, computer peripherals, security technology etc.

WALL / CEILING

Can be directly mounted to a wall/ceiling, or fitted using the accessory wall suspension element and a screw.

Various angles of inclinations of bottom parts and base versions provide an user-friendly operating area – within the operator’s reach and easily legible.

The plain base serves as a spacer for ceiling/wall mounting and offers space for cable routing or 2 mignon cells 1.5 V (AA).

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>ART-CASE</th>
<th>L x W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>R110 F “level”</td>
<td>ø 4.33 x 1.16</td>
</tr>
<tr>
<td>R110 H “level”</td>
<td>ø 4.33 x 1.50</td>
</tr>
<tr>
<td>R110 F “inclined”</td>
<td>ø 4.33 x 1.50</td>
</tr>
<tr>
<td>R110 H “inclined”</td>
<td>ø 4.33 x 1.61</td>
</tr>
<tr>
<td>S110 F “inclined”</td>
<td>ø 4.33 x 1.50</td>
</tr>
<tr>
<td>O160 F “level”</td>
<td>6.30 x 4.33 x 1.18</td>
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<tr>
<td>O160 H “level”</td>
<td>6.30 x 6.30 x 1.50</td>
</tr>
<tr>
<td>O160 F “inclined”</td>
<td>6.30 x 4.33 x 1.50</td>
</tr>
<tr>
<td>O160 H “inclined”</td>
<td>6.30 x 4.33 x 1.61</td>
</tr>
<tr>
<td>E160 F “inclined”</td>
<td>6.30 x 4.33 x 1.50</td>
</tr>
</tbody>
</table>

PROTECTION CLASS IP 40

For ordering information, drawings and 3D models visit www.okwenclosures.com
ART-CASE MOBILE

MOBILE

The enclosure design with its rounded, gentle contours also favours hand-held enclosure applications.

YOUR ADVANTAGES

Available without/with battery operation. Battery compartment for 2 x AAA batteries as accessory. Easy accessible from the outside.

Flat top part with recessed operating area for the protection of the membrane keypad.

APPLICATIONS

All types of remote control devices, wireless or with cable.
Digital control technology.
Medical and laboratory technology.
Building installations.
Automation.

For ordering information, drawings and 3D models visit www.okwenclosures.com
DIFFERENT TERMINATION OPTIONS EACH FOR COMMERCIAL COMPONENTS LIKE

- terminals
- PCB plug headers
- front connectors

When using terminals, the individual conductors can be connected and disconnected while the case is closed.

The connector lead avoids wiring faults when devices are exchanged during regular servicing.

THE PRODUCT

The RAILTEC B family of cases features fast and simple locking onto standard rails complying with DIN EN 60715 TH35.

Different top parts make the case into a versatile and rational connection system.

NEW (see page 93):
- flat versions for the installation of large-area displays and operating elements
- cover for KNX connectors
- BUS system (acc.) for energy and data transmission in the DIN rail (0.295" height)
RAILTEC B

APPLICATIONS
Universal use as installation case. Fully insulated and protected according to VBG4 as well as IEC 529/DIN VDE 0470-1. Corresponding to the regulations of the machine-building and motorcar industry. Especially for the control techniques.

CONVINCING IN MANY WAYS

YOUR ADVANTAGES
6 sizes from 2 to 12 modules according to DIN 43880, size 1.

Suitable for DIN rails EN 60715 TH35 or direct wall mounting.

Flexible assembly. PCB positioning in all three directions: Base part with fixing pillars, top parts with guide ridges.

Locking clip preassembled in base part.

YOUR ADVANTAGES
Without/with ventilation slots for good heat dissipation.

Optionally 1 or 2 connection levels for case version VI; individual configuration with system components – according to need. Terminal guards in the higher versions give more room in the enclosures and a bigger surface to mill for bigger terminals.

Terminal blocks, plug headers, front panels etc. available as accessories for individual equipment.

APPLICATIONS
Universal use as installation case. Fully insulated and protected according to VBG4 as well as IEC 529/DIN VDE 0470-1. Corresponding to the regulations of the machine-building and motorcar industry. Especially for the control techniques.

For ordering information, drawings and 3D models visit www.okwenclosures.com
RAILTEC B WITH A FLAT TOP PART IN THE WIDTHS 2, 4, 6 AND 9 MODULES. LARGE-AREA DISPLAYS AND OPERATING ELEMENTS CAN BE MOUNTED DIRECTLY ON THE ATTACHMENT PILLARS IN THE TOP PART. IF REQUIRED, THE ENCLOSURES ARE ALSO AVAILABLE WITH MATCHING CUTOUTS FOR YOUR DISPLAY AND OPERATING ELEMENTS.

COVER FOR KNX CONNECTORS, TO FIT THE RAILTEC B ENCLOSURE, VERSION VI, OR WITH FLAT TOP PART IN MODULE WIDTHS 2 AND 4. EASY SNAP-IN INSTALLATION.

NEW IN OUR PROGRAM

RAILTEC B BUS SYSTEM FOR ENERGY AND DATA TRANSMISSION IN THE DIN RAIL (TH35 0.295" HEIGHT).

SUITABLE FOR RAILTEC B (EXCEPT FLAT VERSIONS) AND RAILTEC C ENCLOSURES.

GOLD-PLATED DOUBLE CONTACTS IN THE BLOCK OF BATTERY CLIPS FOR RELIABLE CONTACT.

5 BUS CONDUCTORS.

VOLTAGE UP TO 63 V, CURRENT UP TO 5 A FOR EACH BUS CONDUCTOR.
DIFFERENT CONNECTION OPTIONS
FOR COMMERCIAL COMPONENTS SUCH AS:

– terminals
– PCB plug headers
– front connectors
Connection possible from 1 side and/or 2 sides.
Terminal guards closed, perforated or with holes.

PERFECTLY COMBINED
YOUR ADVANTAGES
Suitable for DIN rails EN 60715 TH35 or direct wall mounting. Adapter for TH15 and G32 (1-4 modules) as accessory.
Outstanding material properties for tough conditions, with high temperature stability (UL 94 V-0).
Easy assembly with snap-in installation of the case parts.

THE PRODUCT
Comprehensive range of cases for DIN rail mounting as well as for direct wall mounting.
All types are extremely installation-friendly, for mounting components as well as for connection work!

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS
The enclosure can be used for automation, building and safety technology, and heating and air conditioning technology.

Especially suitable as an automatic control case for time controllers, sensors, relays, signal distributors, lighting controls etc.

YOUR ADVANTAGES
- Optional frame allows additional PCB position as well as the use of the hinged convex front lid.
- Flexible assembly. PCB positioning in all 3 directions: base part with fixing pillars (except 1 module), top parts with guide ridges.
- Front panels and front lids in different versions.

FLEXIBLE PCB ASSEMBLY

MATERIAL / COLOR
- Bottom and top parts: PC (UL 94 V-0), light gray
- Locking clip black/translucent

SIZES IN INCHES

<table>
<thead>
<tr>
<th>RAILTEC C</th>
<th>W x H x D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 module</td>
<td>0.689 x 3.543 x 2.283</td>
</tr>
<tr>
<td>2 modules</td>
<td>1.417 x 3.543 x 2.283</td>
</tr>
<tr>
<td>3 modules</td>
<td>2.089 x 3.543 x 2.283</td>
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<tr>
<td>4 modules</td>
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<td>5 modules</td>
<td>3.465 x 3.543 x 2.283</td>
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<tr>
<td>6 modules</td>
<td>4.173 x 3.543 x 2.283</td>
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<tr>
<td>7 modules</td>
<td>4.813 x 3.543 x 4.488</td>
</tr>
<tr>
<td>8 modules</td>
<td>6.299 x 3.543 x 2.283</td>
</tr>
<tr>
<td>9 modules</td>
<td>7.429 x 3.543 x 2.283</td>
</tr>
<tr>
<td>10 modules</td>
<td>8.266 x 3.543 x 2.283</td>
</tr>
</tbody>
</table>

PROTECTION CLASS < IP 40

For ordering information, drawings and 3D models visit www.okwenclosures.com
**YOUR ADVANTAGES**
Suitable for EN 50 60715 DIN rails as well as for direct wall mounting.

Bottom and top part PC (UL 94 V-0), light gray.

Printed circuit boards can be installed horizontally and vertically.

Openings for terminal outputs on both sides. Terminal guards available as accessories.

Open and closed front panels. Front panel and front cover available as accessories.

For ordering information, drawings and 3D models visit [www.okwenclosures.com](http://www.okwenclosures.com)

**SIZE**
Module width 6 with high top part
W x H x D in inches
4.21 x 3.54 x 4.49

**YOUR ADVANTAGES**
Suitable for DIN EN 60715 rails.

With push-on terminal blocks, 16-pin (4 x 4 pins) in a 0.197" grid.

Guide rails for vertical PCB slot.

Available with/without ventilation slots for good heat dissipation.

Flame-resistant material PA66 (UL 94 V-0), green.
FOR PLUG HEADERS

YOUR ADVANTAGES

Suitable for EN 60715 TH35 and G32 DIN rails.

Connections possible on 3 sides.

For plug headers (ideally 0.197” pitch, max 12 pin). Unused terminal areas can be closed with push-in side walls, either with ventilation slots or without.

Flame-resistant material PA 6 (UL 94 V-0), green.

SIZES

W x H x D in inches
0.89 x 3.23 x 3.54
1.79 x 3.23 x 3.54

For ordering information, drawings and 3D models visit www.okwenclosures.com

PCB CHASSIS

YOUR ADVANTAGES

Suitable for EN 60715 TH35, TH15 and G32 DIN rails or direct wall mounting with wall suspension element.

More flexibility through simple replacement of the interfaces.

Modular design for individual component mounting.

Flame-resistant material PA 6 (UL 94 V-0), green.

SIZES

2.835” wide PCB

4.233” wide PCB

Modular design.
YOUR ADVANTAGES

Suitable for EN 60715 TH35 DIN rails. Adapter for TH15 and G32 as accessory.

Integrated connection system:
8 connections each on four levels; for cable cross-sections of max. 2 x 2.5 mm² rigid or stranded conductor design (ring eyelet/cable lug/flat connector).

1 module (0.689") width, expandable in 1 module increments with intermediate frame.

Flame-resistant material ABS (UL 94 V-0), gray.

SIZE

W x H x D in inches
0.71" x 3.50" x 2.13"
Modular expandable.

YOUR ADVANTAGES

Suitable for EN 60715 TH35 DIN rails. Adapter for TH15 and G32 as accessory.

Integrated connection system:
12 connections per case; for cable cross-sections of max. 2 x 2.5 mm² rigid or 2 x 1.5 mm² stranded conductor design; PCB pins reduce the work involved in wiring.

Removable front with integrated clips for labelling.

Flame-resistant material PC (UL 94 V-0), Front gray/enclosure orange.

SIZE

W x H x D in inches
1.77" x 3.07" x 3.90"
**YOUR ADVANTAGES**

Material corresponds to UL 94 V-0: self-extinguishing and shock resistant. High standard of mechanical and electrical properties.

7 different standard dimensions:
- 2.835” x 1.417”, 1.890” x 1.890”, 3.780” x 1.890”
- 2.835” x 2.835”, 3.780” x 3.780”
- 5.670” x 2.835” (except 5.670 x 5.670)

Enclosure depth from 2.244” - 7.047” (depending on type).

PCBs are fixed in place by the rear frame.

*Note: does not correspond exactly to DIN IEC 61554*

For ordering information and drawings visit [www.okwenclosures.com](http://www.okwenclosures.com)
THE PRODUCT
DIN-MODULAR CASES TYPE B are available in three different designs for mounting control panels complying with DIN IEC 61554.

DESIGNS
Design 1
For horizontal slide-in mounting of PCBs from the front. Closed cases with removable front frame and rear panel. Norm dimension: 3.78" x 1.89", 2.84" x 2.84", 3.78" x 3.78"

Design 2
Versions with separate lids allow vertical and horizontal slide-in PCB assembly. Norm dimension: 5.67" x 2.83", 5.67" x 5.67"

Design 3
same as design 2, but particularly designed for 19"-system slide-in assemblies 12 TE, 3 HE). 2.83" x 5.67".

For ordering information, drawings and 3D models visit www.okwenclosures.com
APPLICATIONS
Case system for a multiple applications.
Especially suitable for measuring, control technology and remote controls.

YOUR ADVANTAGES
All components including the electronic parts can slide into the case from the front side resp. from above, dependent of the case design.
The rear panel has fixing ribs to hold PCBs and slots for the plug connectors.
Holder or bracket for secure mounting within the control panel.
Transparent snap-in cover (accessory) protects displays and operating elements (3.780" x 1.890" – 5.670" x 2.835").

MATERIAL / COLOR
Enclosure:
- Glass fiber reinforced Noryl (UL 94 V-1), with outstanding mechanical and electrical properties, black
Front panel:
- Aluminum, matt anodized
Filter plate:
- Acrylglas, red transparent
- SAN (UL 94 HB), red transparent (depending on enclosure)

PROTECTION CLASS < IP 40

APPLICATIONS
Case system for a multiple applications.
Especially suitable for measuring, control technology and remote controls.

For ordering information and drawings visit www.okwenclosures.com
THE PRODUCT
OKW POTTING BOXES – a comprehensive range of boxes for potting electronic assemblies. With special cost advantages for series-type production.

Potted assemblies are protected from shock as well as temperature, dampness and chemical influences. The versions made of Duroplast are less resistant to impact than the Polyamide 6.6 or ABS models.

YOUR ADVANTAGES

Duroplast (1)
Resistant to deformation and extreme temperatures.

Polyamide 6.6 (2)
Good value for money. High-impact.

ABS (3)
Good value for money. Preferably for potting small assemblies.

MATERIAL / COLOR
- Duroplast, black
- PA 6.6, black
- ABS, black

OUTSIDE DIM. IN INCHES

<table>
<thead>
<tr>
<th>Type</th>
<th>L x W x H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duroplast</td>
<td>0.79 x 0.79 x 0.52 – 3.94 x 3.94 x 1.57</td>
</tr>
<tr>
<td>PA 6.6</td>
<td>0.55 x 0.55 x 0.45 – 1.82 x 1.82 x 1.61</td>
</tr>
<tr>
<td>ABS</td>
<td>0.48 x 0.48 x 0.60 – 2.66 x 1.41 x 1.82</td>
</tr>
</tbody>
</table>

For ordering information and drawings visit www.okwenclosures.com
WALL / RAIL
Wall suspension elements for hidden or external wall mounting.

Holding clamp for round tubes or standardized rails.

Fastening elements for DIN rails according to DIN EN 60715 TH35 and G32.

THE PRODUCT
OKW offers you a comprehensive range of ACCESSORIES. Adapted to the application, our standard cases can thus be modified in many different ways.

OKW ACCESSORIES are designed to be practical, thus providing you with more flexibility for your individual case.

Here, too, numerous solutions show our high propensity to innovate.

RATIONAL HINGE AND LOCKING TECHNIQUES
For easy opening of the device.

SECURELY HELD

For ordering information and drawings visit www.okwenclosures.com
HANDLE BAR IN DIFFERENT MATERIALS
Side arms made of polyamide with aluminum profile.
Side arms made of diecast zinc for high load with aluminum profile.
Individual profile lengths (suitable profile separately on demand).

ERGONOMIC & RELIABLE POSITIONING

HOLDING DEVICE
Holding devices for universal use. With ball joint, flexible swan neck, for bicycle assembly or with suction pad. Horizontal and vertical tilt angle, ergonomically inclined for the operator. Suitable adapter for the enclosures as accessory.

POSITIONING
Tilt foot bar resp. handle bar facilitates desktop applications ergonomical inclination angle. This facilitates viewing of displays as well as operating.
Case feet ensure reliable positioning. Versions with tilt legs provide ergonomic inclination angle.

ACCESSORIES
For ordering information and drawings visit www.okwenclosures.com
MOBILE
Practical belt / pocket clip for attaching small plastic enclosures to shirts and belts.

Lanyard, belt strap with clip-on or push-on connection and wrist strap as individual supplements.

Ring eyelets for threading hand straps and the like, simple installation with snap-in hook.

For mobile use, the enclosures can also be combined with a carrying handle. This allows a secure grip as well as ergonomic handling above the center of gravity of the enclosure. If necessary, the adjustment mechanism also allows the user to set a practical angle in situ, in increments of 30°.

For ordering information and drawings visit www.okwenclosures.com
INTERNAL POWER SUPPLY

BATTERY COMPARTMENTS
Battery compartments and holders in different versions and types for direct installation in front and rear panels or enclosure walls. Easy battery replacement.

Battery holder, battery clips and button cell holder with connector pins for mounting on PCBs.

CONTACTS
Plug-in contacts with lateral or T-shape cable connection suitable for 9 V flat battery.

Wide choice of battery clips, in different materials for OKW battery compartments – single pieces or supplied as sets.

BATTERY SPACER
For taking up the gap when fitting AA cells instead of a 9 V flat battery in the battery compartment.

For ordering information and drawings visit www.okwenclosures.com
INTERFACES
Pressure compensation element with particularly high air flow to protect sensitive electronics in case of changing weather conditions. Also suitable for large-volume protective cases and control cabinets. High protection rating IP 56.

USB end cover for connector types A according to DIN IEC 61076-3-107 and Mini-USB.

Contacts for transmission of data and charging current. NEW: Also available as kit with mounting plates for simple installation.

CABLE CONNECTION
Universally applicable cable glands for different cable cross-sections as kink protection and attractive closing point.

Wide choice of cable glands with strain relief of the best material for shake and twist-proof cable lead-in. The sealing ring for external thread preserves the high protection class IP 68.

Optionally available strain relief protects cable connections from mechanical stress.

For ordering information and drawings visit www.okwenclosures.com
EMC PRODUCTS
If required we can supply conductive seals in individual sizes from ø 0.059” – 0.118” as well as contact strips to improve the electromagnetic compatibility (EMC) of shielded enclosures. Why not ask us!

To shield electronic equipment against radiation from outside as well as from increased internal emission noise, we can vapour-plate with aluminum the inside of plastic enclosures and partial covers that offer no natural protection from electromagnetic radiation, see page 127.

PLASTIC AND ALUMINUM PANELS
On request we can also supply blanks made of plastic and aluminum in individual sizes and shapes or finished parts according to customers’ drawings.

We can offer high-quality plastic and aluminum panels in different colors, panel thicknesses and surface textures, depending on the material.

DISPLAY WINDOW
In addition to our standard display windows, we can also supply blanks in all sizes or finished parts according to customers’ drawings.

Different materials:
- Antiflex one-sided anti-reflection surface to avoid undesired light reflections
- Lux-Acryl transparent
- PC transparent or transparent V-0 (Europlex F7)

www.okwenclosures.com
SMALL PARTS

Self-tapping screws for fastening components, boards and PCBs with crosshead (PZ1) or Torx (T10).

For individual mounting and configuration, we can offer a wide range of fasteners, e.g. threaded bushes and bolts, spacers, mounting pillars, screws etc.

MOUNTING

Mounting of assemblies, installation of components.

Assembly and packaging to customer’s specifications, e.g. soldering for battery contacts, wiring, connections, seals, conductive seals, contact strips etc.

We will also be pleased to perform the necessary modifications and all assembly work to complete your device.

Assembly of enclosure accessories, e.g. cable glands, belt / pocket clips, tilt foot bars, wall mountings, hinges, handle bars and much more.

Application of keypad foils, decor foils, type plates, display windows etc.

Adhesive foils in any shape for application.
"TUNING KNOBS FOR ATTRACTIVE DEVICE DESIGN."
STAR-KNOBS FLUSH-FITTING

THE PRODUCT
One could not have chosen a more suitable name, for the STAR-KNOBS – like the stars in the sky – they represent the visual highlights of your equipment.

The illumination guides the user to the central user interface and also gives impressive emphasis on innovative equipment design.

The STAR-KNOBS are available flush-fitting or surface-mounted.

APPLICATIONS
For rotary potentiometers or rotary pulse generators with round shaft ends in accordance with DIN 41591, including touch function.

Measuring and control technology.

Medical field and laboratory technology.

Wellness.

Heating and air conditioning.

Communication. Building.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR
Knob:
- PA, volcano
- PA, nero
- PC, diamond (individual illumination)
- PC, ruby (can be illuminated)
- PC, emerald (can be illuminated)
- PC, sapphire (can be illuminated)

Cover / recess:
- PA, volcano
- PA, nero

FASTENING
Tried and tested collet fixture system with secure fit on the axle.
**ILLUMINATION**

With the flush-fitting version, the knob can be illuminated, that is, a ring lights up between the recess and the knob cover.

For this, please order the translucent knob.

The suitable PCB with LED illumination is available as an accessory: white / RGB backlight.

---

**DIM. IN MM**

<table>
<thead>
<tr>
<th>Ø 33 (holes 6 mm and 1/4”)</th>
<th>Ø 41 (holes 6 mm / 8 mm)</th>
</tr>
</thead>
</table>

**BACKLIGHT**

Optional illumination possible with modern, energy-saving SMD LED technology.

With white backlight, you can realize the colors diamond, ruby, emerald, and sapphire.

For individual colors, there is a RGB backlight available. In this way, you can display your own color.

**FLUSH-FITTING**

The flush-fitting installation in the built-in version of the STAR-KNOBS represents an attractive transition from the knob to the front of the device.

Your advantage: there are no projecting operating elements that can be actuated unintentionally.

The finger recess in the cover as well as knurls on the knob guarantee ergonomic operation.

An assembly support for mounting and adjustment is available as an accessory.

For ordering information, drawings and 3D models, visit www.okwenclosures.com.
THE PRODUCT

One could not have chosen a more suitable name, for the STAR-KNOBS – like the stars in the sky – they represent the visual highlights of your equipment.

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APPLICATIONS

For rotary potentiometers or rotary pulse generators with round shaft ends in accordance with DIN 41591, including touch function.

Measuring and control technology.

Medical field and laboratory technology.

Wellness.

Heating and air conditioning.

Communication. Building.

For ordering information, drawings and 3D models visit www.okwenclosures.com

MATERIAL / COLOR

Knob / ring (assembly kit):
- PA, volc
- PA, nero
- PC, diamond*
- PC, ruby*
- PC, emerald*
- PC, saphire*

*ring can be illuminated

Cover:
- PA, volc
- PA, nero

FASTENING

Tried and tested collet fixture system with secure fit on the axle.
ILLUMINATION

With the surface-mounted version, the knob design makes a great impression thanks to the slight inclination of the body towards the inner axis, thus allowing ergonomically favourable operation.

An assembly support for mounting and adjustment is available as an accessory.

For this please order the translucent assembly kit.

The suitable PCB with LED illumination is available as accessory: white / RGB backlight.

For ordering information, drawings and 3D models visit www.okwenclosures.com
MATERIAL / COLOR

Knob:
- PA 6, volc
- PA 6, ner

Marking element – depending on type – PA 6

DIM. IN MM

Ø 16, Ø 20, Ø 24, Ø 31, Ø 40

FASTENING

With lateral screw fixing on shaft ends according to DIN 41591

For ordering information, drawings and 3D models visit www.okwenclosures.com
**YOUR ADVANTAGES**

Knob design for a modern, innovative image for your equipment.

Reliable operation with the tried and tested collet fixture system: convenient assembly of knobs from the front and tight fitting on the axis.

Without/with marking element.

For size 40 and larger, the cover is also available with a finger recess for rational handling during adjustment.

---

**THE PRODUCT**

Outstanding appearance is a characteristic of the COM-KNOBS.

Aesthetic design and a modern selection of colors in pastel tones give your equipment a high quality appearance.

Different sizes and combinations also provide a wide selection of attractive tuning knobs with the tried and tested collet fixture system.

---

**MATERIAL / COLOR**

Knob:
- PA 6, volcano
- PA 6, nero

Cover / marking element:
- PA 6

**DIM. IN MM**

Ø 16, Ø 20, Ø 23, Ø 31, Ø 40, Ø 50

**FASTENING**

Tried and tested collet system for rotary potentiometer with round shaft ends conforming to DIN 41591.

---

For ordering information, drawings and 3D models visit [www.okwenclosures.com](http://www.okwenclosures.com)
THE PRODUCT

The name COMBINATION KNOBS stands for an exceedingly functional range of rotary buttons with a reliable collet fixture system.

They offer a versatile range of possible applications as round knobs, wing knobs and spindle-shaped knobs with a large selection of accessories.

YOUR ADVANTAGES

Tried and tested collet fixture system. Convenient assembly of knobs from the front, easy adjusting (by means of an adjusting key, see accessory). Tight fitting of knobs on the axis.

Round, wing and spindle-shaped knobs with the same standardized design and with matt surface.

A large variety of functional accessories, e.g. covers in different colors and transparent dials. Easy push-on assembly.

For ordering information and drawings visit www.okwenclosures.com

WELL ADJUSTED

MATERIAL / COLOR

Knob:
- ABS (UL 94 HB), black (RAL 9005)
- ABS (UL 94 HB), dusty gray (RAL 7037)

Cover*
- ABS (UL 94 HB)
- ABS (UL 94 HB)

Arrow disk*
- ABS (UL 94 HB)

Disk*
- ABS (UL 94 HB)
- PC (UL 94 HB)

Nut cover*
- ABS (UL 94 HB)
- ABS (UL 94 HB)

*depending on type / size
APPLICATIONS
Well proven for electro-mechanical rotary potentiometers with shaft ends corresponding to DIN 41591, e.g. within the field of measuring, controlling, regulating.

YOUR ADVANTAGES
Torsion protection for axes 6/4.6 mm available as accessory. Suitable for round and wing knobs sizes Ø 20 to 50 mm with 6 mm borehole.

We also produce our COMBINATION KNOBS in special colors, moq reserved. Please advise us of the color and quantity you require.

DIM. IN MM
Ø 9, Ø 10, Ø 13.5, Ø 16, Ø 20, Ø 23, Ø 31, Ø 40, Ø 50

FASTENING
Tried and tested collet system for rotary potentiometer with round shaft ends conforming to DIN 41591.
Sizes 10 and 13 have blind holes and screw fixing. From knob size 23 up through holes (sizes 16 + 20 stepped, except for axes 4 mm).

For ordering information and drawings visit www.okwenclosures.com
THE PRODUCT

The TUNING KNOB range covers many different fields of application.

Choose the TUNING KNOB whose size and design meets your own special requirements.

Thanks to the large selection of types, you have the opportunity of giving your equipment its own individual “face”.

YOUR ADVANTAGES

For the varying applications involved we offer a range of tuning knobs in thermoplastic as well as knobs in thermosetting plastic for high temperature resistance (Duroplast).

Different designs and sizes – practical, with a good grip.

High-grade metal effects thanks to aluminum cap or insert embellisher. The color and styling of the front panel thus form a unified whole.

Versions with markings – advantageous for adjusting and indicating.

For ordering information and drawings visit www.okwenclosures.com
“A MOVE AHEAD – WITH OKW!”
"TAILOR-MADE TO MEET YOUR REQUIREMENTS."
And what if your requirements go beyond our standard services? No problem. 35 years of experience in the development of cases is waiting to help you realize your own individual solution.

From development to series-type production, we can offer you the solution you need, for any quantity. See pages 134-137.

Look at our comprehensive standard range and select the enclosure or tuning knob that matches your ideas, your components and the needs of your customer best.

In the next step you merely have to tell us what you still need for your own very personal product. Together with you we choose the necessary modifications from our wide range of services – ideal in terms of price, quality and delivery time – to meet your specific requirements.

Machining and finishing services see pages 124-131.

Depending on requirements and intended use, we can produce the enclosures in special colors, in flame-resistant material or in an environment-friendly bio-plastic. See page 132.

We can develop your customer-specific enclosure size on the basis of the standard design. With the help of existing 3D models, we can design practically any special size to meet your needs and requirements. See page 133.

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MECHANICAL MACHINING

Individual machining, e.g. cutouts for interfaces, cable entries and outlets as well as cable bushes, displays and operating elements.

Milled parts for individual designs, e.g. inserts for interface devices, wall suspension elements etc.

Individual plastic and aluminum panels, e.g. covers, filter and safety screens for electronic displays, IR screens for infrared applications as well as front panels; blanks and finished parts according to customers’ drawings.

MECHANICAL MACHINING

Further information see our website www.okwenclosures.com

THE RIGHT RECESSES

Individual machining, e.g. cutouts for interfaces, cable entries and outlets as well as cable bushes, displays and operating elements.

Milled parts for individual designs, e.g. inserts for interface devices, wall suspension elements etc.

Individual plastic and aluminum panels, e.g. covers, filter and safety screens for electronic displays, IR screens for infrared applications as well as front panels; blanks and finished parts according to customers’ drawings.

PLASTIC AND ALUMINUM

Mechanical processing of plastic and aluminum enclosure components.

State-of-the art machines guarantee high and uniform quality.

There is practically no limit to the variety of shapes and designs. You receive your enclosures ready for installation, and only have to mount the electronics.
EMC IMPROVING CONTACTS

If required we can supply conductive seals in individual sizes as well as contact strips to improve the electromagnetic compatibility (EMC) of shielded enclosures.

Coating of other materials, individual coating thicknesses and EMC accessories on request.

EMC ALUMINUM COATING

To shield electronic equipment against radiation from outside as well as from increased internal emission noise, we can vapor-plate with aluminum the inside of plastic enclosures and case parts that offer no natural protection from electromagnetic radiation.

Aluminum coating

Shielding effect with approx. 2.5 μm thickness: 30-40 dB in the frequency range from 30 to 1,000 MHz

Short production times thanks to in-house vapor-plating plant with numerous brackets and EMC accessories

Further information see our website www.okwenclosures.com

PROTECTION FROM RFI/EMI

EMC ACCESSORIES

IMPROVING CONTACTS
SURFACE FINISHING

Your enclosure and tuning knob in an individual color and unusual design.

Standard lacquers with different degrees of gloss, from matt to glossy.

Metallic colors.

Soft-Touch coating to improve the “feel” of your product.

Standard decals, see our website.

PROTECTIVE LACQUER
Protective lacquers have proved valuable for special requirements.

- ESD lacquer.
- Antibacterial lacquer.
- Protective lacquer against abrasion.
- Special protective lacquer against unwanted marks from fingerprints.

Short preparation and processing times – all colors are made for you in our own mixing unit.

Lacquering with high-grade, UV-resistant 2-component lacquers.

Water transfer printing.

Chromed.
PRINTING

Depending on the required printed image and type of enclosure / tuning knob, we can offer you silkscreen printing, tampo printing and digital printing.

Color definition in RAL, Pantone, NCS, according to sample or range of dyes. For digital printing CMYK.

Alternatively we can also engrave texts by machining, depending on the enclosure.

SPECIAL FEATURES

Precise multicolor printing.

All-round printing.

Printing with reflecting colors.

Printing day and night design elements for backlighting.

Text engraving, with and without color.

Digital printing directly on the case.

Further information see our website www.okwenclosures.com
DIGITAL PRINTING, MEMBRANE KEYPAD

Use our potential for the production of your membrane keypads as well.

Through our cooperation with powerful partners, we are in a position to offer you a complete range, e.g. for remote controls, machine control systems, medical equipment (disinfected applications), electrical household appliances and peripheral equipment etc.

DIGITAL PRINTING

The digital printing process (photo quality) allows different design versions without big expenses.

Decorative foils or banderoles can be printed even for just 1 unit for lettering and for adding color, and products can even be printed directly.

Special features: consecutive numbering, barcodes or price specifications.

Further information see our website www.okwenclosures.com

DIGITAL PRINTING

Digital printing directly on the case also makes a great impression; we can print ABS surfaces with differences in height of up to 0.059”

MEMBRANE KEYPAD

Keypad design without/with metal dome
Without/with integrated LEDs

PRINTING IN PHOTO QUALITY

KEYPAD TO CI STANDARDS
SALES WRAPPING

Present your product in a high-quality sales wrapping!

On demand we create and print your individual sales wrapping or adhesive label in accordance to your corporate design rules.

ASSEMBLY

We will carry out mounting and assembling to complete your device e.g. mounting of cable glands and display windows, supply and mounting of threaded bushes or bolts, conductive gaskets, pocket belt, battery clips, membrane keypads or decorative foils.

Of course, you can also provide us with your own components or keypads for the assembly process.

If required we can support you in the development of the parts and components and will help you plan suitable installation.

Adhesive label
Banderole

FULL ASSEMBLY OF THE DEVICE
HIGH-QUALITY PRESENTATION

Further information see our website www.okwenclosures.com
**BIO PLASTIC**

BIOGRADE® has similar properties to ABS and can be processed using the normal injection molding method. In many applications BIOGRADE® can replace the fossil plastics used up to now. For indoors applications there are no restrictions to the life cycle.

Show that you are responsible and environmentally aware with an enclosure made of BIOGRADE®.

**SPECIAL PRODUCTION**

For particular requirements to be met by the parts, such as improved chemical resistance, flame resistance or individual coloring, we can also produce standard enclosures in other materials and colors.

The online product catalog shows the possible special material options on the product pages.

Further information see our website [www.okwenclosures.com](http://www.okwenclosures.com)
YOUR ADVANTAGES

Combination with standard parts.

With a special size, you can have your enclosure exactly adapted and produced to fit your electronics.

Rely on innovative technology by OKW and save valuable time in development.

Uniform design features – this is an advantage for your product portfolio when using different sizes and series of enclosures.

SPECIAL SIZES

We can develop your customer-specific variant on the basis of the standard design.

With the help of existing 3D models, we can design practically any special size to meet your needs and requirements.

What installation volume do you need? We can adapt ...
- individual components, e.g. lower or higher top and bottom parts, or
- the size of the entire enclosure.

Individual size
Cutouts for interface panels can be integrated

Quality from the specialist
Aesthetic design

AN OKW ENCLOSURE MADE TO MEASURE

IN YOUR SIZE

Further information see our website www.okwenclosures.com
BESPOKE ENCLOSURES AND TUNING KNOBS

We are pleased to pass on to you our years of experience in the development and manufacture of plastic cases, for all the requirements to be met by a case which cannot always be implemented in one standard product. You should therefore make use of our potential for your individual case.

From development to series-type production, we can offer you the solution you need, for any quantity.

INDIVIDUAL DESIGN

We can create and develop exclusive designs for your products.

In this way, highly individual enclosures and tuning knobs geared to your application can be created in close cooperation with you.

We take account not only of the design but also of the material, the function and of course also your budget.

COMBINATION WITH STANDARD PARTS

Benefit from the combination with standard parts, e.g. the use of individual enclosure parts, battery compartment lids, battery clips etc.

In this way, your individual enclosure can be created within a short time and on reasonable terms.
Tool insert

Milled parts of aluminum/plastic

Handle – prototype and standard part using double injection technology

New top part and optical fibers

Protector made of TPE for ERGO-CASE M

Additional illumination plate

Milled parts of aluminum/plastic

TAILORED SOLUTIONS

MATERIAL MIX
PLASTIC & ALUMINUM
The materials of the enclosure can also be mixed. Plastic and aluminum. This creates a highly individual style and an interesting contrast. For example a front panel made of aluminum? Or the intermediate part? Without doubt, the visual effect can be improved by the interaction of the materials, and the mixture can cast a new light on the product.

HARD & SOFT
To place greater emphasis on ergonomic requirements, a material mix of hard/soft improves the touch and feel for the user. If required, customer-specific design of the injection tool or a combination with a function part.

ADDITIONAL FUNCTIONS
We develop and produce individual function parts to match your application. Here are some examples from our customers:

Optical fibers
Customer-specific optical fibers with a convex design to match the curve of the top part.

Charging cradle
Special attachment for depositing mobile devices. With a holder for the charging and data transfer contacts.

Enclosure inserts, attachments
For holding and contacting interface devices, installing scanners etc.

Wall mounting and desk-top display
Individual wall mounting and display, adjusted to the load-carrying capacity and the required angle of inclination.

Illumination plate
In a translucent design for the background lighting of the Star Knob operating element.

Handle
For holding, guiding and remotely controlling the device. Hard/soft using double injection technology.

And much more.
CONCEPT & DEVELOPMENT

PROJECT PHASE 1
On the basis of your requirements profile, we can work out a conceptual solution to meet your product requirements.

Whether it is a question of product concept, material specifications, optimum tooling design, high quality surface finish etc., we have the technical competence for complete solution.

PROTOTYPING

PROJECT PHASE 2
Before implementing an individual case solution, we offer you the opportunity to create a prototype.

On the basis of the prototype, you can check integrated components, evaluate the design and in some cases even carry out functional tests.
PROJECT PHASE 3

After the design has been approved, we implement the concept by creating the molds, tool inserts and equipment.

Cost-effective solutions to meet your needs, for example the creation of interchangeable inserts in OKW’s own standard molds, reduce your investment to the minimum.

Execution of the work through trained staff with the required knowledge.

PROJECT PHASE 4

For the series-type production of your individual enclosure / tuning knob solution, modern machine facilities are available.

Besides straight injection molding production, we can also finish your individual product in our Service Center.
ONLINE PRODUCT CATALOGUE

Different search criteria support you in the selection of your products.

Choose ...
– by category: plastic enclosures, tuning knobs etc.
– by product application: hand-held enclosures, desk enclosures etc.
– by feature (“Advanced Search” link): dimensions, protection class, display type etc.

YOUR PERSONAL PRODUCT LIST

The website has a shopping basket icon. You can simply collect articles in your personal shortlist, compare different enclosure and tuning knob types with each other and draw up your own personal product list for online enquiries and requests for samples.

CHOOSE ACCESSORIES

On the relevant product pages we have listed a selection of suitable system components in the tab “Suitable System Components”.

Adapted to the application, our standard enclosures can thus be modified in many different ways.

You can find universal accessories under “Plastic enclosures” > “Accessories for enclosures”.
INFORMATION AT THE CLICK OF A MOUSE

SELECTING AND ADDING SERVICES

On the relevant product pages you can also see the matching customizing options. Select the modifications and finishes you want and add these, together with the product, to your product list! Then specify your requirements and add your contact details to complete and send off your online enquiry. We shall be pleased to submit a quotation.

DOWNLOAD GEOMETRIC DATA

Geometric product data can be downloaded from our website on the product pages.

Drawings in PDF format (2D/3D) are available for your own use.

You can download other 3D geometric data after you have registered, activated your account and agreed to the terms of use.

OKW WEBSITES WORLDWIDE

Global  www.okw.com
Australia  www.okw.com.au
France  www.okw.fr
Russia  www.okw.com.ru
Switzerland  www.okw.ch
U.K.  www.okw.co.uk
U.S.A.  www.okwenclosures.com