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# HAND-HELD BOXES

# HAND-HELD-BOXES

#### YOUR ADVANTAGE

- These cases are ergonomic and easy to use.
- Prepared for mounting of digital or analogue display modules.
- Battery compartment with snap-in-mechanism for the quick change of batteries.
- With or without switch cap / slide switch cap, also for multimeters
- High front end for the mounting of connectors.
- Recessed operating area for the protection of membrane keyboards and operating elements.

#### STANDARD COLOURS

Black, RAL 9005 resp. black brown, RAL 8022 Off-white, RAL 9002. Please refer to colour chart on page 214.

#### MATERIAL

ABS (UL 94 HB). Also available in other materials on request. Please refer to the specifications on pages 215-217.









# APPLICATIONS

Useful hand-held-boxes for mounting of digital or analogical instruments. Versatile useable in the measuring and control technology, e.g. continuity checker and volt meter, field intensity meter, digital thermometers etc.



Cases marked with  $\rlap/$  are available with aluminium metallization on demand. The contact areas of top and bottom part are poor.



## ROBUST, MOBILE, HANDY

Successfully used cases for multiple and single measuring and for mobile data recording.

Available in five different types.

The boxes are easy to handle and easy to service.

The variety of boxes is so large that we are sure you will find a case to suit your specific requirements exactly.

MODIFICATIONS AS PER CUSTOMER'S REQUIREMENTS

Machining on modern CNC-controlled machines. Lacquering. Silk screen and tampo printing. See pages 210-213.

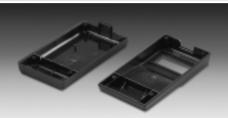
#### DESIGN

Successfully used case for measuring instruments of handy pocket size. With recessed area for imprintings or your logo. Cut-out section for LCD or analogical modules with active area up to 50 x 20 mm. With battery compartment, accessible from the outside, for 9 V flat battery (PP3) or 1.5 V baby cell (C) with contacts for soldering. Raised front area to accommodate pluss.

#### ASSEMBLY

Case parts are assembled by 4 self-tapping screws. Snap-in battery compartment lid.







Battery compartment for one 9 V flat battery (PP3) or one 1.5 V baby cell (C) with contacts for soldering.

VERSION I

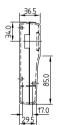
With lateral recess for rocker switch.

VERSION II

Without lateral recess.

Detailed drawing available on demand in dwg or dxf format.







◆ ◆ = Type of screw for case fixing: cross head







Max. size of PCB; base part 71 x 106 mm, top part 72 x 106 mm (cutouts for pillars not taken into consideration)

♠ H (PH1)

MAX. Size of FCB. base part /1 x 100 mm, top part /2 x 100 mm (cutouts for pinars not taken into consider attor)							
	CASE (Pa	rt-No. with 🗲 see					
	Outside di	mensions in mm	Colour	Version	Part-No.		
	L W	H					
	145 80	36.5 / 29.5	black	I	A 90 60 009 🗲		
	145 80	36.5 / 29.5	off-white	I	A 90 60 007 🗲		
	145 80	36.5 / 29.5	black	II	A 90 60 019 🗲		
	145 80	36.5 / 29.5	off-white	II	A 90 60 017 🗲		
	ACCESS	ORIES			]		
	Article		Colour	Version / Application			
MODIFICATIONS	Switch cap	1	black	for rocker switch application	A 91 60 009		
AS PER	Switch cap Cover plug		off-white	for rocker switch application	A 91 60 007		
CUSTOMER'S			black	cover the screw holes in the bottom	A 91 60 002		
REQUIREMENTS	Plug-in-contact		blue	for 1 x 9 V flat battery (PP3)	A 91 60 003		
	Display win	ndow	transparent	plexiglass	A 91 60 004		
See pages 210-213	Adhesive foil		transparent	for fastening the display window	Δ 91 60 006		



Battery compartment for one 9 V flat battery (PP3) or one 1.5 V baby cell (C) with contacts for soldering.

VERSION I

With battery compartment for one 9 V flat battery (PP3)





#### DESIGN

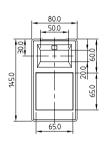
Small hand-held case with excellent design. With recessed area, e.g. for membrane keyboards, control elements. Cut-out section for digital and analogical modules with active area up to 50 x 20 mm. The battery compartment is accessible from the outside. For 9 V flat battery (PP3) or 1.5 V baby cell (C) with contacts for soldering. Raised front area to accommodate plugs.

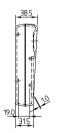
#### ASSEMBLY

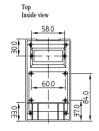
Case parts are assembled by 4 self-tapping screws. Snap-in battery compartment lid

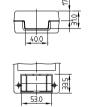
or one 1.5 V baby cell (C). Detailed drawing available on demand in dwg or dxf format.

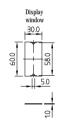
Type of screw for case fixing: cross head











Max. size of PCB; base part 71 x 102 mm, top part 71 x 106 mm (cutouts for pillars not taken into consideration)

♠ H (PH1)

	0 (						
Part-No.	CASE (Part-No. with ** see Outside dimensions in mm L W H				Version		
A 90 62 019 🗲	145	80	38.5 / 31.5	black	I		
A 90 62 017 🗲	145	80	38.5 / 31.5	off-white	I		
	ACCE	SSOR	IES				
	Article		Colour	Version / Application			
A 91 60 002	Cover plug		black	cover the screw holes on bottom			
A 91 60 003	Plug-in contact		blue	for 1 x 9 V flat battery (PP3)	MODIFICATIONS		
A 91 60 005	Display window			transparent	plexiglass	AS PER	
A 91 60 006	Adhesive foil		transparent	for fastening the display window	CUSTOMER'S		
	Reference: Suitable tilt foot bar see accessory on page 200.					REQUIREMENTS	
						See pages 210-213	

See pages 210-213.

#### DESIGN

Large exclusive hand-held case. With recessed area. e.g. for membrane keyboards, control elements. Cut-out section for digital and analogical modules with active area up to 65 x 23 mm. Version with battery compartment either for two 9 V flat batteries (PP3) or four 1.5 V mignon cells (AA), accessible from the outside. Raised front area to accommodate plugs.

#### ASSEMBLY

Case parts are assembled by 4 self-tapping screws. Snap-in battery compartment lid.







Version I with battery compartment for two 9 V flat batteries (PP3) or four 1.5 V mignon cells (AA).

### VERSION I

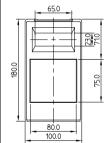
With battery compartment for two 9 V flat batteries (PP3) or four 1.5 V mignon cells (AA).

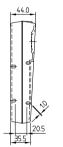
## VERSION II

Without battery compartment.

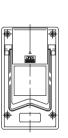
Detailed drawing available on demand in dwg or dxf format.

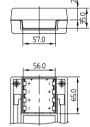
◆ ◆ = Type of screw for case fixing: cross head

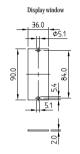




Adhesive foil







Max. size of PCB:

See pages 210-213.

top part 91 x 169, base part without battery compartment 91 x 168 mm or with battery compartment 91 x 109 mm (cutouts for pillars not taken into consideration) (\*) Z (PZ1)

	CASE (Part-No. with # see	EMC page 42)		
	Outside dimensions in mm	Colour	Version	Part-No.
	L W H			
	180 100 44 / 35,5	black	I	A 90 61 019 \$
	180 100 44 / 35,5	off-white	I	A 90 61 017 \$
	180 100 44 / 35,5	black	П	A 90 61 119 \$
	180 100 44 / 35,5	off-white	II	A 90 61 117 🗲
	ACCESSORIES			
MODIFICATIONS	Article	Colour	Version / Application	
AS PER CUSTOMER'S	Set of battery clips	tin plated	for 4 x 1.5 V mignon cells (AA)	A 91 61 001
	Plug-in contact	blue	for 1 x 9 V flat battery (PP3)	A 91 60 003
REQUIREMENTS	Tilt foot bar	chrome plated	steel, for ergonomic canting	A 93 61 009
	Display window	transparent	plexiglass	A 91 61 004

for fastening the display window

transparent

# HAND-HELD-BOX G, K



#### VERSION I

HAND-HELD-BOX G. Without lateral recess. With removable front panel.

#### VERSION II

HAND-HELD-BOX K. Special type for multimeters.

With lateral recess for slide switch and borehole for knob on the upper side. With removable front panel.



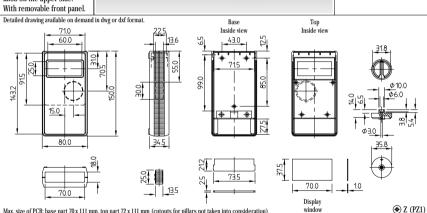


#### DESIGN

Clearly styled hand-held case with ridged side areas affording a firm grip. Suitable for two-layer PCB mounting. Version I with recessed area 142.4 x 71 mm for membrane keyboards or imprinting. Cut-out section for digital and analogical modules with active area up to 60 x 25 mm. Battery compartment for 9 V flat battery (PP3), accessible from the outside.

#### ASSEMBLY

Case parts are assembled by 2 screws. Removable and plug-in type rear panel.



Max. size of PCB: base part 70 x 111 mm, top part 72 x 111 mm (cutouts for pillars not taken into consideration)

Part-No.	CASE (Part-No. with * see Outside dimensions in mm L. W. H.				
A 90 63 011 🗲	150 80	34,5	black brown	I	-
A 90 63 021 🗲	150 80	34,5	black brown	П	1
	ACCESSOR	IES			1
	Article		Colour	Version / Application	M
A 91 63 001	Switch knob		black brown		A S
A 91 63 003	Slide switch cap		black brown	slide dimensions 3 x 3 mm	Cl
A 91 60 003	Plug-in contact		blue	for 1 x 9 V flat battery (PP3)	RE
A 91 63 004	Display window		transparent	plexiglass	] ```
A 91 63 005	Adhesive foil		transparent	for fastening the display window	See

MODIFICATIONS AS PER CUSTOMER'S REQUIREMENTS See pages 210-213.