

HAND-HELD BOXES

4AND-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.

12-







FMC

Cases marked with f are available with aluminium metallization on demand. The contact areas of top and bottom part are poor.

APPLICATIONS

Useful hand-held-boxes

for mounting of digital or

analogical instruments.

Versatile useable in the

measuring and control

checker and volt meter, field intensity meter, digital

thermometers etc

technology, e.g. continuity



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.

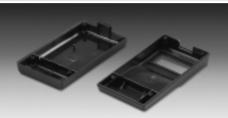
DESIGN

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 1.969 x 0.787". 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 plugs.

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

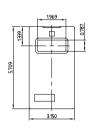
With lateral recess for rocker switch.

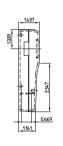
VERSION II

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 2.795 x 4.173", top part 2.835 x 4.173" (cutouts for pillars not taken into consideration)

♦ H (PH1)

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	CASE (Part-No. with # see	Part-No.		
	L W H			
	5.709 3.150 1.437/1.161	black	I	A 90 60 009 🗲
	5.709 3.150 1.437/1.161	off-white	I	A 90 60 007 🗲
	5.709 3.150 1.437/1.161	black	II	A 90 60 019 🗲
	5.709 3.150 1.437/1.161	off-white	II	A 90 60 017 🗲
	ACCESSORIES	ACCESSORIES		
	Article	Colour	Version / Application	
MODIFICATIONS	Switch cap	black	for rocker switch application	A 91 60 009
AS PER	Switch cap	off-white	for rocker switch application	A 91 60 007
CUSTOMER'S	Cover plug	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 window	transparent	plexiglass	A 91 60 004
See pages 210-213.	Adhesive foil	transparent	for fastening the display window	A 91 60 006



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





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 1.969 x 0.787". The battery compartment is accessible from the outside. For 9 V flat battery (PP3) or 1.5 V baby cell (C) with contacts for such a commodate plugs.

ASSEMBLY

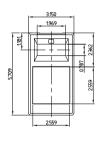
Case parts are assembled by 4 self-tapping screws. Snap-in battery compartment lid

VERSION I

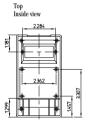
With battery compartment for one 9 V flat battery (PP3) or one 1.5 V baby cell (C).

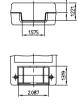
Detailed drawing available on demand in dwg or dxf format.

Sype of screw for case fixing: cross head











Max. size of PCB: base part 2.795 x 4.016", top part 2.795 x 4.173" (cutouts for pillars not taken into consideration)

♠ H (PH1)

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Part-No.	CASE (Part-No. with ** see Outside dimensions in inch L W H		Version	
A 90 62 019 🗲	5.709 3.150 1.516/1.240	black	I	
A 90 62 017 🗲	5.709 3.150 1.516/1.240	off-white	I	
	ACCESSORIES			
	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

DESIGN

Large exclusive hand-held case. With recessed area, e.g. for membrane key-boards, control elements. Cut-out section for digital and analogical modules with active area up to 2.559 x 0.906". Version with battery com-partment either for two 9 V flat batteries (PP3) or four 1.5 V mignon cells (AA), accessible from the outside. Raised front area to accom-modate 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

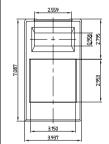
With battery compartment for two 9 V flat batteries (PP3) or four 1.5 V mignon cells (AA).

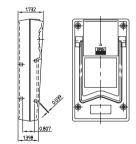
VERSION II

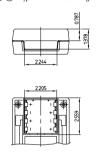
Without battery compartment.

Detailed drawing available on demand in dwg or dxf format.

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









Max. size of PCB: top part 3.583 x 6.654", base part without battery compartment 3.583 x 6.614" or with battery compartment 3.583 x 4.291" (cutouts for pillars not taken into consideration)

(*) Z (PZ1)

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

	CASE (Part-No. with # see EMC page 42)				
C	Outside dimensions in inch		Colour	Version	
L		W	H		
7	.087	3.937	1.732/1.398	black	I
7	.087	3.937	1.732/1.398	off-white	I
7	.087	3.937	1.732/1.398	black	II
7	.087	3.937	1.732/1.398	off-white	II
Α	ACCESSORIES				
A	Article		Colour	Version / Application	
S	Set of battery clips		tin plated	for 4 x 1.5 V mignon cells (AA)	
P	Plug-in contact		blue	for 1 x 9 V flat battery (PP3)	
T	Tilt foot bar		chrome plated	steel, for ergonomic canting	
Π	Display window		transparent	plexiglass	
A	Adhesive foil		transparent	for fastening the display window	

A 91 61 001
A 91 60 003
A 93 61 009
A 91 61 004
A 91 61 005

Part-No.
A 90 61 019 #

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.



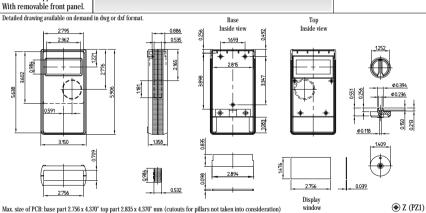


DESIGN

Clearly styled hand-held case with ridged side areas affording a firm grip. Suitable for two-layer PCB mounting. Version I with recessed area 5 606 x 2 795" for membrane keyboards or imprinting. Cut-out section for digital and analogical modules with active area up to 2.362 x 0.984". 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.



CASE (Part-No. with # see EMC page 42) Part-No. Outside dimensions in inch | Colour Version 5.906 3.150 1.358 black brown black brown 5.906 3.150 1.358 ACCESSORIES MODIFICATIONS Article Colour Version / Application Switch knob black brown AS PER A 91 63 001 slide dimensions 0.118 x 0.118" Slide switch cap black brown CUSTOMER'S Plug-in contact for 1 x 9 V flat battery (PP3) blue plexiglass

transparent

transparent

for fastening the display window

REQUIREMENTS

See pages 210-213.

A 91 63 004

A 91 63 005

Display window

Adhesive foil