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FLAT-PACK CASES

Used in all fields of electronics.

new

- FLAT-PACK CASES N 100 / 120 / 150, H 100 / 120 / 150 and S are assembled with self-tapping screws.

Fast and easy access open sided base.



Version with handle bar.



Low-priced housings for your electronics.

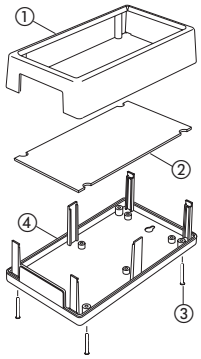
Practical for desktop units (with non slip rubber feet) and for wall-mounted units with screw fastening from the front. On demand, we can drill the neccesary holes at a favourable price when the wall-mounting kit is needed.

Base with injection moulded fastening pillars for fast and easy mounting of PCBs. Open sided base for easy access.

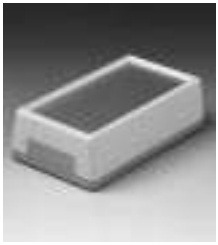
Available with flat or high top. Also versions with ventilation and sound slots.

Special version with handle bar. For easy carrying or convenient canting when using as a desktop unit.

FLAT-PACK CASE A



① Top
② Front panel (accesorries)
③ Case screw (type A 120 only two case screws)
④ Base



Easy to machine with separate front panel in aluminium. Labels, controls and imprintings are protected by the raised edge of the case.

MODIFICATIONS AS PER CUSTOMER'S REQUIREMENTS

See pages 216-219.



FLAT-PACK
CASE L

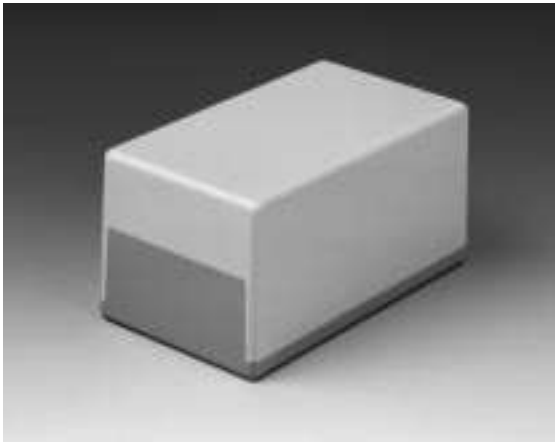
With ventilation slots.

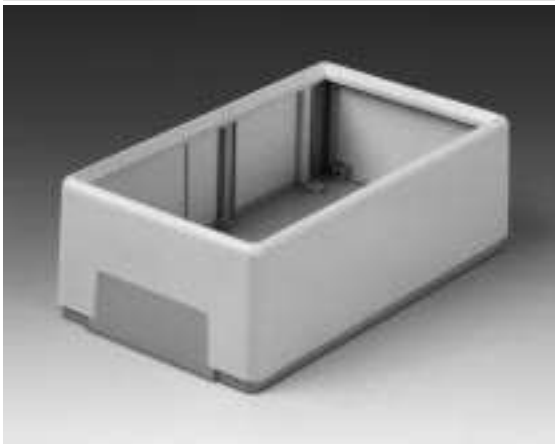


FLAT-PACK
CASE S

With sound slots.







FLAT-PACK
CASE N

With flat top.

Case	Outs. dim. in mm		
	L	W	H
N 100	100	50	25
N 120	120	65	40
N 150	150	80	50
	150	80	55
N 189	189	110	60
	189	110	70

FLAT-PACK
CASE H

With high top.

Case	Outs. dim. in mm		
	L	W	H
H 100	100	50	40
H 120	120	65	65
H 150	150	80	80
H 189	189	110	97
	189	110	120

FLAT-PACK
CASE A

With recesss for front panel mounting.

Case	Outs. dim. in mm		
	L	W	H
A 120	120	65	40
A 150	150	85	45
A 210	210	125	75

FLAT-PACK CASES N

with flat top

STANDARD COLOURS

Top off-white, RAL 9002.
Base pebble grey, RAL 7032.
Please refer to colour chart on page 220.

SPECIAL COLOURS

Any desired colour.

MATERIAL

High-impact polystyrene (UL 94 HB).
Also available in other materialls on request. Please refer to the specifications on pages 221-223.

SUPPLY

1 two-piece case
4 screws for case assembly
4 self-tapping screws for the mounting of PCBs

VERSION I

Fastening pillars for PCBs with cored holes of ø 2.4 mm – suitable for self-tapping screws ø 3.0 mm for plastics.

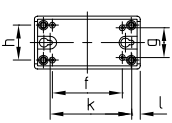
VERSION II

Same version as I, but with handle bar.

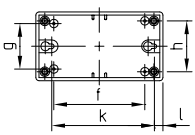




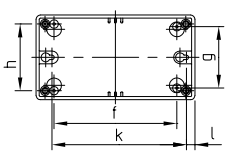
N 100



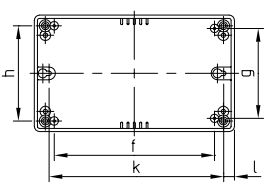
N 120



N 150



N 189



DESIGN

Two-piece flat-pack case with flat top.

Fastening pillars for PCB mounting.

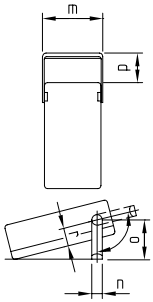
Solid tongue- and groove-joint.

Base of FLAT-PACK CASES N 120 / H 150 / N 189 with premoulded recesses for assembly self-adhesives rubber feet ø 10 mm, see accessory on page 212.

ASSEMBLY

Case sizes N 100, N 120 and N 150 are assembled by self-tapping screws, size N 189 with four M3 screws or fast snap lock (see accessories on page 176).

Wall-mounting kit as accessory, see page 176.



Part No.	Flat-Pack Case	Outside dim. in mm A	B	C	Inside dim. in mm a	b	c	d	e	Spacings in mm f	g	h	k	l	Dim. of handle bar in mm m	n	o	p	r	Version
A 90 10 065	N 100	100	50	25	94	44	19	17	15	66	28	33	77	8						I
A 90 20 065	N 120	120	65	40	114	59	34	32	29,5	86	43	48	97	8						I
A 90 30 065	N 150	150	80	50	144	74	44	42	39,5	116	58	63	127	8						I
A 90 30 165		150	80	50	144	74	44	42	39,5	116	58	63	127	8	85	15	62	35	25	II
A 90 32 065		150	80	55	144	74	49	42	44,5	116	58	63	127	8						I
A 90 40 065	N 189	189	110	60	182	104	54	52	49,5	151,5	85	90	165	9						I
A 90 40 165		189	110	60	182	104	54	52	49,5	151,5	85	90	165	9	115	15	62	30	30	II
A 90 43 065		189	110	70	182	104	64	52	59,5	151,5	85	90	165	9						I

Reference: The tensile strength of our self-tapping screws is much greater than threaded bushes.
Suitable self-tapping screws see page 212.

FLAT-PACK CASE H

with high top

DESIGN

Two-piece flat-pack case with high top.

Sandwich-type mounting of several PCBs possible. Additional fastening pillars for self-tapping screws also in the top mould. (except FLAT-PACK CASE H 100).

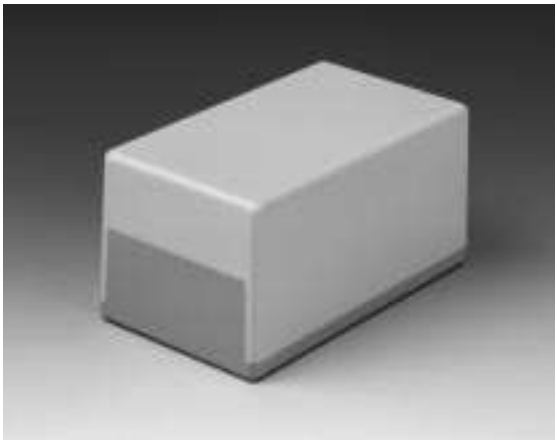
Solid tongue- and groove joint.

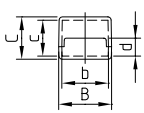
Base of FLAT-PACK CASES H 120 / H 150 / H 189 with premoulded recesses for assembly self-adhesives rubber feet ø 10 mm, see accessory on page 212.

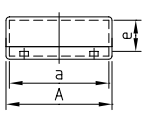
ASSEMBLY

Case size H 100, H 120 and H 150 are assembled by self-tapping screws, size H 189 with four M3 screws or fast snap lock (see accessories on page 176.

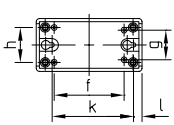
Wall-mounting kit as accessory, see page 176.



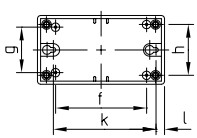




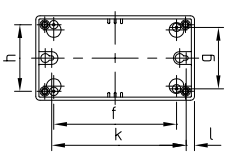
H 100



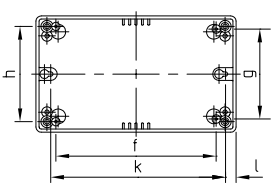
H 120



H 150



H 189



Drawing of flat-pack case with handle bar see page 172.

STANDARD COLOURS

Top off-white, RAL 9002. base pebble grey, RAL 7032. Please refer to colour chart on page 220.

SPECIAL COLOURS

Any desired colour.

MATERIAL

High-impact polystyrene (UL 94 HB).
Also available in other materials on request. Please refer to the specifications on pages 221-223.

SUPPLY

1 two-piece case
4 screws for case assembly
4 self-tapping screws for the mounting of PCBs

VERSION I

Fastening pillars for PCBs with cored holes of ø 2.4 mm – suitable for self-tapping screws ø 3.0 mm for plastics.

VERSION II

Same version as I, but with handle bar.

Flat-Pack case	Outside dim. in mm A	B	C	Inside dim. in mm a	b	c	d	e	Spacings in mm f	g	h	k	l	Dim. of handle bar in mm m	n	o	p	r	Version	Part No.
H 100	100	50	40	94	44	34	17	29,5	66	28	33	77	8						I	A 90 11 065
H 120	120	65	65	114	59	59	32	49,5	86	43	48	97	8						I	A 90 21 065
H 150	150	80	80	144	74	74	42	64	116	58	63	127	8						I	A 90 31 065
H 189	189	110	97	183	104	91	52	81,5	151,5	85	90	165	9						I	A 90 41 065
	189	110	97	183	104	91	52	81,5	151,5	85	90	165	9	115	15	62	30	30	II	A 90 41 165
	189	110	120	183	104	114	52	104,5	151,5	85	90	165	9						I	A 90 42 065

Reference: The tensile strength of our self-tapping screws is much greater than threaded bushes.
Suitable self-tapping screws see page 212.

FLAT-PACK CASES L, S

with ventilation- and sound slots

FLAT-PACK CASE L



DESIGN

Two-piece flat-pack case with ventilation slots.
For components dissipating strong heat.
Base with premoulded recesses for assembly self-adhesives rubber feet ø 10 mm, see accessory on page 212.

ASSEMBLY

Low-cost assembly. Screw mounting, assembly kit for wall-mounting or fast snap lock (see accessories on page 176).

SUPPLY

1 two-piece case
4 threaded screws M3 for case assembly
4 self-tapping screws for the mounting of PCBs

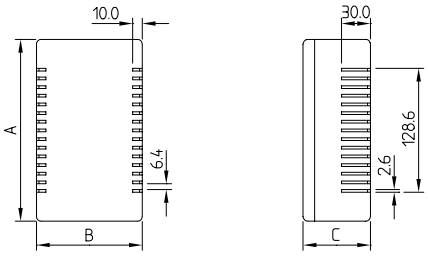
STANDARD COLOURS

Top off-white, RAL 9002.
Base pebble grey, RAL 7032.
Please refer to colour chart on page 220.

MATERIAL

High-impact polystyrene (UL 94 HB).
Also available in other materials on request. Please refer to the specifications on pages 221-223.

Identical main dimensions with FLAT-PACK CASE N 189 on page 172.



Flat-pack case	Outside dim. in mm A	B	C	Inside dim. in mm a	b	c	d	e	Spacings in mm f	g	h	k	l
L	189	110	70	183	104	64	52	59,5	151,5	85	90	165	9

Part No.

A 90 43 265

FLAT-PACK CASE S



DESIGN

Two-piece case with sound slots in the top section.
For miniature appliances with sound signal e.g. gas leakage detectors etc.
Base with premoulded recesses for assembly self-adhesives rubber feet ø 10 mm, see accessory on page 212.

ASSEMBLY

Low-cost assembly. Fitting by 2 screws only. Additional wall-mounting kit (see accessories on page 176).

SUPPLY

1 two-piece case
2 self-tapping screws for case assembly
4 self-tapping screws for the mounting of PCBs

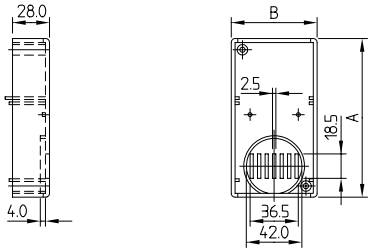
STANDARD COLOURS

Top off-white, RAL 9002.
Base pebble grey, RAL 7032.
Please refer to colour chart on page 220.

MATERIAL

High-impact polystyrene (UL 94 HB).
Also available in other materials on request. Please refer to the specifications on pages 221-223.

Identical main dimensions with FLAT-PACK CASE N 120 on page 172.



Flat-Pack Case	Outside dim. in mm A	B	C	Inside dim. in mm a	b	c	d	e	Spacings in mm f	g	h	k	l
S	120	65	40	114	59	34	32	29,5	86	43	48	97	8

Part No.

A 90 20 265

Reference: The tensile strength of our self-tapping screws is much greater than threaded bushes. Suitable self-tapping screws see page 212.

FLAT-PACK CASE A

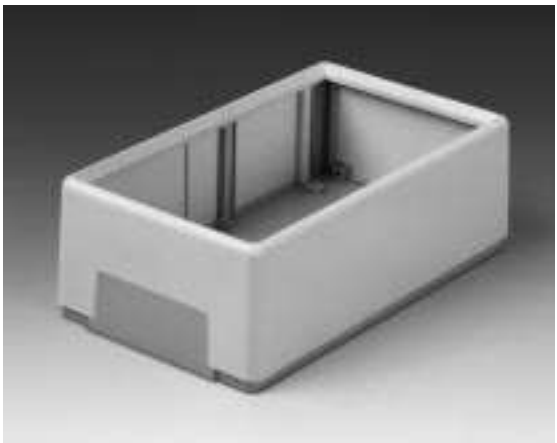
for mounting an aluminium front panel

DESIGN

Two-piece case of compact design.
The front panel (accessory) rests upon fours spring posts and is held without screws by the case frame.

If the case is wall-mounted, the frame can be screwed to the base from the side. (except FLAT-PACK CASE A 150).

Supply:
1 case with assembly kit.



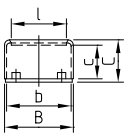
STANDARD COLOURS

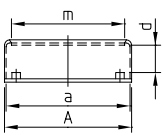
Top off-white, RAL 9002.
Base pebble grey, RAL 7032.
Please refer to colour chart on page 220.

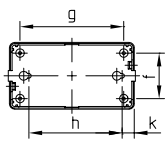
MATERIAL

Case: High-impact polystyrene (UL 94 HB).
Front panel: Matt anodized aluminium.
Case also available in other materials on request. Please refer to the specifications on pages 221-223.

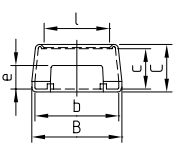
FLAT-PACK CASE A 120

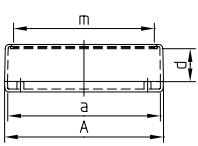


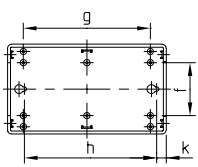




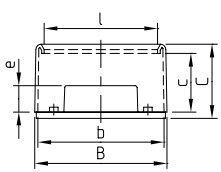
FLAT-PACK CASE A 150

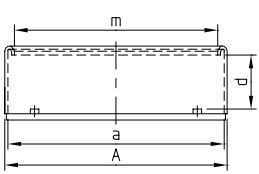


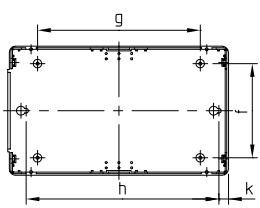




FLAT-PACK CASE A 210







Base with premoulded recesses for assembly self-adhesives rubber feet:
ø 7mm at type A 150 and
ø 10 mm at type A 210.
See accessory on page 212.

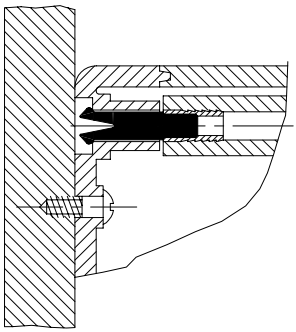
Article	Outside in mm			Inside dim. in mm					Spacings in mm						Part No.
	A	B	C	a	b	c	d	e	f	g	h	k	l	m	
A 120	120	65	40	117	61	31,5	25,5	–	43	98	88	11,5	52	107	A 95 20 165
Front panel	113	58	1												A 91 95 201
A 150	150	85	45	144	79	36,5	31,5	22	50	120	126	9	62	133	A 95 30 165
Front panel	142	71,5	1,5												A 91 95 301
A 210	210	125	70	214	119	54	49,5	25	89	154	182	9	107	192	A 95 40 165
Front panel	201	116	1,5												A 91 95 401

SNAP LOCK

Replaces the standard screw fixing of the case.

Suitable for FLAT-PACK CASES
A 90 40 065 – A 90 43 265 with assembly bushes.

Supply:
1 piece



Part No.	For FLAT-PACK CASES
A 91 00 008	A 90 40 065 – A 90 43 265

ASSEMBLY

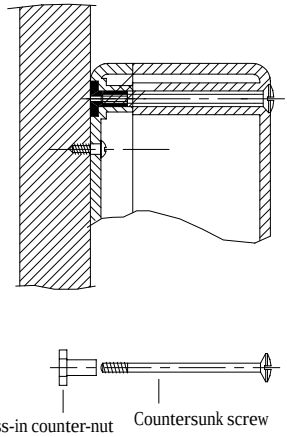
This simple snap lock device replaces the standard screw fixings supplied with the cases. The lock is fitted into the assembly bushes in the top cover. This allows the top to be unclipped from the base without the need of a screw driver. This is especially useful if the case is to be wall-mounted.

ASSEMBLY KIT

for wall-mounting FLAT-PACK cases. Permit screw fixing of the cases from the front.

It is neccesary to drill the top cover of the case in order to achieve this. Ask for more details of our service.

Supply:
1 assembly kit with 4 threaded screws and 4 counter-nuts



Part No.	Assembly kit for wall-mounting FLAT-PACK CASES if accessibility from the front is required Suitable for cases:
A 91 20 000	A 90 11 . . .
A 91 20 000	A 90 20 . . .
A 91 30 000	A 90 30 . . .
A 91 32 000	A 90 32 . . .
A 91 40 000	A 90 40 . . .