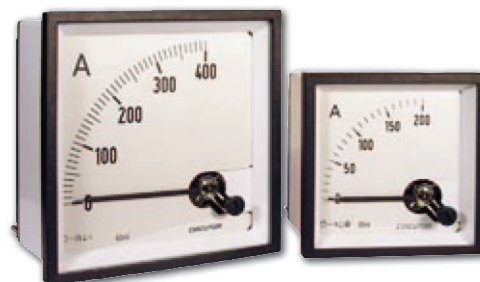


## Moving-coil ammeter (DC)

# Moving-coil ammeter

Analogue indicator to measure direct current



## Description

- No need for auxiliary power supply, only the **CEC 96** type
- DIN boxes with dimensions: 48, 72, 96 and 144
- Precision class 1.5
- Measurement in DC 25  $\mu$ A ... 60 A, or ... 60 mV
- Exchangeable scales for **BC48**, **BC72**, **BC96**, **BM 45**
- The alarm system can be fully configured for **CBC 96**

## Application

In direct current applications, to control the state of the current quickly and visually.

## Features

	BC	BM	CBC 96
Auxiliary power supply			230 V ac
Consumption		-	2.5 V·A
Frequency		-	40 ... 90 Hz
<b>Input circuit</b>			
Consumption	60 mV		0.2 V·A
Overloads	1.2 $I_n$ permanent		1.2 $I_n$ permanent
	5 $I_n$ during 30 s		5 $I_n$ during 30 s
	10 $I_n$ during 5 s		10 $I_n$ during 5 s
	40 $I_n$ during 1 s		40 $I_n$ during 1 s
<b>Class</b>	1.5 % FS		
<b>Ambient conditions</b>			
Operating temperature	+10 ... +30 °C		+5 ... +55 °C
Limit temperature	-25 ... +40 °C		-25 ... +70 °C
Altitude	2000 m		
<b>Build features</b>			
Dimensions	See the following table		
Weight	See the following table		
Type of box	panel	DIN rail	panel
<b>Degree of protection:</b>			
Front panel	IP 52		IP 52
terminals	IP 00		IP 20
Insulation voltage	2 kV, during 1 min, between the mechanism and the box		
<b>Standards</b>	BS 89, EN 60051, IEC 144, UL 94, DIN 43780, IEC 51, UNE 21318, CE		IEC51, IEC 1010, IEC 529, IEC 255, IEC 278, IEC 414, IEC 144, LLOYD'S (TEST. ESP. No. 1)

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References

BC: Ammeters 90° / BM: Ammeters 90°, DIN rail / CBC96: Ammeters with 2 relays



Ammeters, 90°						Ammeters with 2 relays	
Type	BC 48	BC 72	BC 96	BC 144	BM 45	CBC 96	
Class						1,5	1,5
Scale						90°, P1	90°, P1
Dimensions (mm)							
	a	48	72	96	144	85	96
	b	48	72	96	144	52	96
	c	66,2	49,2	49,2	71,8	65	85,3
Weight (g)	75	170	210	420	110	435	
A							
5	M11412	M11422	M11432	M11442	M11452	-	
10	M11413	M11423	M11433	M11443	M11453	-	
25	M11416	M11426	M11436	M11446	M11456	-	
50	M11419	M11429	M11439	M11449	M11459	-	
60	-	M1142A	M1143A	M1144A	M1145A	-	
.../60 mV(*)	M11410	M11420	M11430	M11440	M11450	M14830	

Exchangeable scales

Type	SBC 48	SBC 72	SBC 96	SBM 45
Equipment	BC 48	BC 72	BC 96	BM 45
A / mV				
50/60	M114Z9	M114Y9	M114X9	M114V9
60/60	M114ZA	M114YA	M114XA	M114VA
75/60	M114ZB	M114YB	M114XB	M114VB
100/60	M114ZC	M114YC	M114XC	M114VC
150/60	M114ZE	M114YE	M114XE	M114VE
200/60	M114ZF	M114YF	M114XF	M114VF
250/60	M114ZG	M114YG	M114XG	M114VG
300/60	M114ZH	M114YH	M114XH	M114VH
400/60	M114ZJ	M114YJ	M114XJ	M114VJ
600/60	M114ZL	M114YL	M114XL	M114VL
1 000/60	M114ZP	M114YP	M114XP	M114VP
1 500/60	M114ZR	M114YR	M114XR	M114VR
2 500/60	M114ZT	M114YT	M114XT	M114VT

\* If the input of the unit requested is not .../60mV, indicate the ratio.

\* BC48 / BC72 / BC96 / BC144 / BM45:

\*Scale is not included, except in EC144 (equipment + scale included, indicate transformer ratio)

\*For exchangeable scales, see Tables. External shunts, see M.7

\*Different input ranges, shunt

\*Central zero adjustment, on demand

\*Inputs starting on 25 uA, on demand

\* CEC96:

\*Scale included, indicate the transformer ratio (shunt)

Coding table

BC and BM45 Ammeters	M	1	X	X	X	X	0	0	X	X	X	
	Code							Internal Code		↑	↑	↑
	Setting	Standard						0		↑	↑	↑
		Central zero						1		↑	↑	↑
	Shunt input range	Standard (.../60 mV)						0		↑	↑	↑
		.../50 mV						1		↑	↑	↑
		.../150 mV						3		↑	↑	↑
		.../300 mV						5		↑	↑	↑
	Scales	50						9		↑	↑	↑
		60						A		↑	↑	↑
		75						B		↑	↑	↑
		100						C		↑	↑	↑
		150						E		↑	↑	↑
200						F		↑	↑	↑		
250						G		↑	↑	↑		
300						H		↑	↑	↑		
400						J		↑	↑	↑		
500						K		↑	↑	↑		
600						L		↑	↑	↑		
1000						P		↑	↑	↑		
1500						R		↑	↑	↑		
2500						T		↑	↑	↑		

SBC and SBM45 Scales	M	1	X	X	X	X	0	0	X	X	
	Code							Internal Code		↑	↑
	Setting	Standard						0		↑	↑
		Central zero						1		↑	↑
	Shunt input range	Standard (.../60 mV)						0		↑	↑
		.../50 mV						1		↑	↑
.../150 mV						3		↑	↑		
.../300 mV						5		↑	↑		

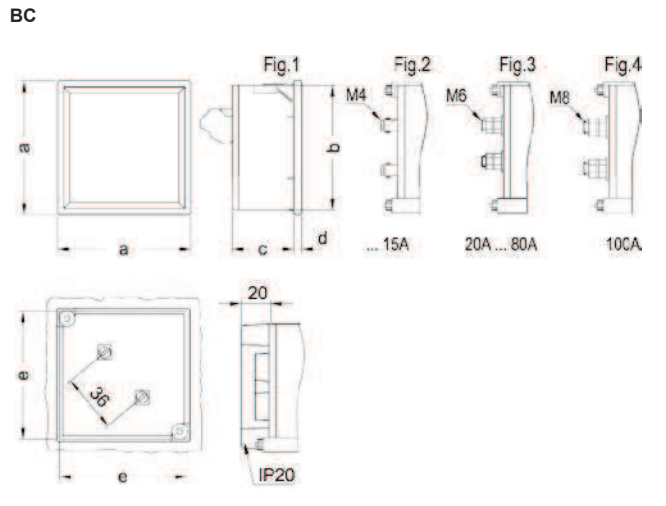
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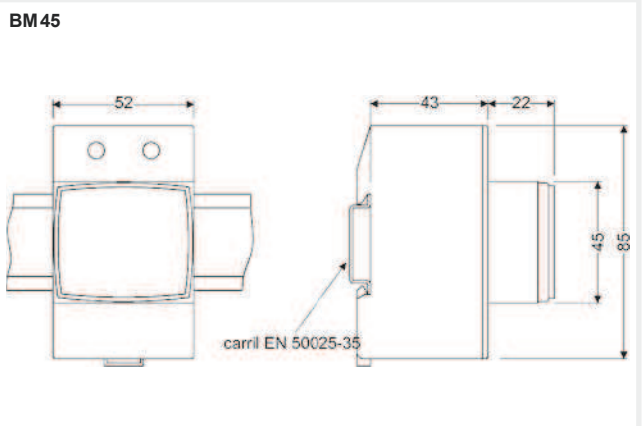
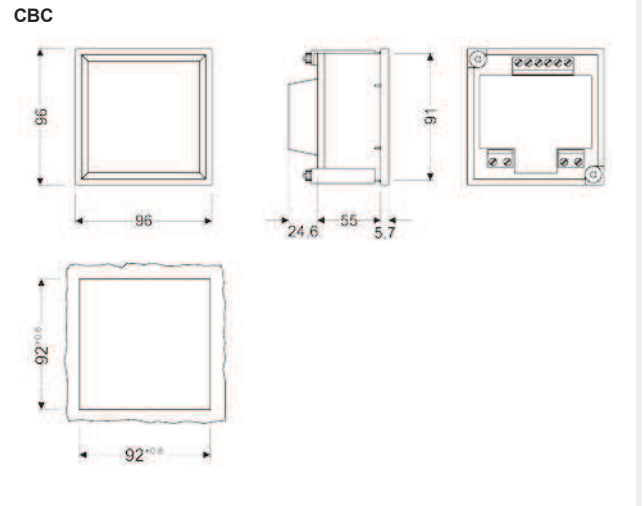


References



Type	Fig. BC	a	b	c	d	e
48 mm	1-3	48	44,7	61	5,2	45
72 mm	2-3-4	72	67,2	43,5	5,7	68
96 mm	2-3-4	96	91	43,5	5,7	92
144 mm	2-3-4	144	137	64,5	7,3	138

Dimensiones (mm)



Connections

