

# Basic Series • Square Panel Meters

For Alternating Current or Voltage 45 ... 50 ... 60 ... 65 Hz



EQB 72

## Description

Analog Panel Meter with Moving-Iron Movement and Spring-Loaded Pivot Bearings

## Display

Scale Division Coarse-fine

Pointer Knife-edge pointer per DIN

## Mechanical Design

Housing Material Polycarbonate, self-extinguishing and drip-proof per UL94V-0

Mounting Fasteners Screw Clamp

Scale Interchangeable scales  
⇒ Scales may only be replaced under voltage-free conditions!

Replaceable Front frames and glass windows  
⇒ Scales may only be replaced under voltage-free conditions!

Terminals M4 screw terminals with self-lifting terminal clips. Screws can be turned with cross-head or standard screw drivers.  
Bolt M6 if measuring input > 15 A and ≤ 40 A  
Bolt M8 if measuring input > 40 A and ≤ 60 A

Contact Protection Finger-safe terminal cover included

Moving-Iron Movement, 90° scale white, imprint black

Narrow front frame matt black per DIN 43 718, anti-glare glass

Front Dimensions mm	48 x 48	72 x 72	96 x 96
Type	EQB 48	EQB 72	EQB 96
Scale length mm	42	63	97
Accuracy Class	1.5	1.5	1.5
Max. Weight (Standard Model)	0.1 kg	0.2 kg	0.25 kg
Max. Operating Voltage	300 V	600 V	600 V
Test Voltage	3.5 kV	5.8 kV	5.8 kV
Front Housing-Panel Protection	IP 52	IP 52	IP 52

## Power Consumption

Connection	Measuring Input	Power Consumption
direct	Current	1 A ... 10 A
direct	Current	≥ 15 A
to transformer	Current	sec.: 1 A or 5 A
		approx. 0.6 VA
		approx. 0.8 VA
		approx. 0.6 VA
direct	Voltage	10 V ... 600 V
to transformer	Voltage	sec.: 100 V or 110 V
		approx. 2.5 VA
		approx. 2.5 VA

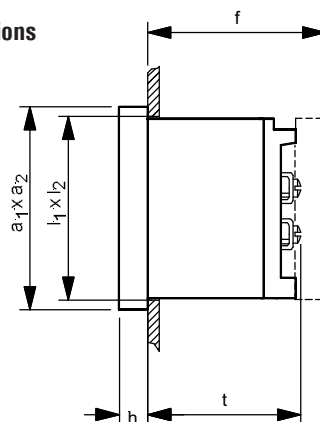
## Reference Conditions

Reference Quantities	Reference Conditions
Ambient Temperature	23°C ± 2°C
Position of Use	control panel vertical ± 1°
Frequency	45 ... 65 Hz
Other	DIN EN 60051

## Nominal Range of Use Limits

Frequency	for alternating Current 45 ... 65 Hz for alternating Voltage 45 ... 65 Hz
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## Basic Dimensions



Front in mm	Nominal Dimensions		Cutout Dimensions, mm $l_1 \times l_2$	Installation Depth Including Terminals (t), mm M4	Installation Depth Including Full Cover (f), mm
	$a_1 \times a_2$	h			
48 x 48	48 x 48	5.5	$45^{+0.6} \times 45^{+0.6}$	53	66
72 x 72	72 x 72	5.5	$68^{+0.7} \times 68^{+0.7}$	53	66
96 x 96	96 x 96	5.5	$92^{+0.8} \times 92^{+0.8}$	53	66

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Moving-iron movement, 90° scale white, imprint black  
Narrow front frame matt black per DIN 43 718, anti-glare glass

Range	Scale <sup>1)</sup>	Type Order No.	EQB 48 ↓	EQB 72 ↓	EQB 96 ↓
1.5 / 3 A	1.5 / 3 A		48015 30000 B	72015 30000 B	96015 30000 B
2.5 / 5 A	2.5 / 5 A		48025 50000 B	72025 50000 B	—
4 / 8 A	4 / 8 A		48048 00000 B	72048 00000 B	—
6 / 12 A	6 / 12 A		48612 00000 B	72612 00000 B	96612 00000 B
10 / 20 A	10 / 20 A		48102 00000 B	72102 00000 B	96102 00000 B
15 / 30 A	15 / 30 A		48153 00000 B	72153 00000 B	96153 00000 B
20 / 40 A	20 / 40 A		—	72204 00000 B	—
25 / 50 A	25 / 50 A		48255 00000 B	72255 00000 B	96255 00000 B
30 / 60 A	30 / 60 A		—	72306 00000 B	—
40 / 80 A	40 / 80 A		—	72408 00000 B	96408 00000 B
50 / 100 A	50 / 100 A		—	72501 00000 B	—
60 / 120 A	60 / 120 A		—	72601 20000 B	96601 20000 B
1 / 2 A	0 – 50 / 100 A		48125 01000 B	72120 50100 B	96120 50100 B
1 / 2 A	0 – 60 / 120 A		48126 01200 B	72120 60120 B	96120 60120 B
1 / 2 A	0 – 100 / 200 A		48121 00200 B	72120 10020 B	96120 10020 B
1 / 2 A	0 – 150 / 300 A		48121 50300 B	72120 15030 B	96120 15030 B
1 / 2 A	0 – 200 / 400 A		48122 00400 B	72120 20040 B	96120 20040 B
1 / 2 A	0 – 250 / 500 A		48122 50500 B	72120 25050 B	96120 25050 B
1 / 2 A	0 – 400 / 800 A		48124 00800 B	72120 40080 B	96120 40080 B
1 / 2 A	0 – 600 / 1200 A		48126 00120 B	72120 60012 B	96120 60012 B
1 / 2 A	0 – 800 / 1600 A		48128 00160 B	72120 80016 B	96120 80016 B
1 / 2 A	0 – 1000 / 2000 A		48121 00020 B	72120 10002 B	96120 10002 B
1 / 2 A	0 – 1200 / 2400 A		48121 20024 B	72120 12002 B	96120 12002 B
1 / 2 A	0 – 1500 / 3000 A		48121 50030 B	72120 15003 B	96120 15003 B
1 / 2 A	0 – 2000 / 4000 A		48122 00040 B	72120 20004 B	96120 20004 B
5 / 10 A	0 – 50 / 100 A		48510 50100 B	72510 50100 B	96510 50100 B
5 / 10 A	0 – 60 / 120 A		48510 60120 B	72510 60120 B	96510 60120 B
5 / 10 A	0 – 100 / 200 A		48510 10020 B	72510 10020 B	96510 10020 B
5 / 10 A	0 – 150 / 300 A		48510 15030 B	72510 15030 B	96510 15030 B
5 / 10 A	0 – 200 / 400 A		48510 20040 B	72510 20040 B	96510 20040 B
5 / 10 A	0 – 250 / 500 A		48510 25050 B	72510 25050 B	96510 25050 B
5 / 10 A	0 – 400 / 800 A		48510 40080 B	72510 40080 B	96510 40080 B
5 / 10 A	0 – 600 / 1200 A		48510 60012 B	72510 60012 B	96510 60012 B
5 / 10 A	0 – 800 / 1600 A		48510 80016 B	72510 80016 B	96510 80016 B
5 / 10 A	0 – 1000 / 2000 A		48510 10002 B	72510 10002 B	96510 10002 B
5 / 10 A	0 – 1200 / 2400 A		48510 12002 B	72510 12002 B	96510 12002 B
5 / 10 A	0 – 1500 / 3000 A		48510 15003 B	72510 15003 B	96510 15003 B
5 / 10 A	0 – 2000 / 4000 A		48510 20004 B	72510 20004 B	96510 20004 B
10 V	10 V		—	72000 00010 B	96000 00010 B
60 V	60 V		—	72000 00060 B	96000 00060 B
100 V	100 V		48000 00100 B	72000 00100 B	96100 00000 B
120 V	120 V		—	72120 00000 B	96120 00000 B
150 V	150 V		48150 00000 B	—	—
250 V	250 V		48250 00000 B	72250 00000 B	96250 00000 B
500 V	500 V		48500 00000 B <sup>2)</sup>	72500 00000 B	96500 00000 B
600 V	600 V		—	72600 00000 B	96600 00000 B

1) Specify unlisted scales in clear text

2) Max. operating voltage above earth 300 V

**Ammeters without overload scale on request.**

**Ammeters with overload scale on request for 1.2 times, three, five or six times rated current.**