

Basic Series • Square Panel Meters

For Direct Current or Direct Voltage



DQB 96

Description

Analog Panel Meter with Core-Magnet Moving-Coil Movement and Spring-Loaded Pivot Bearings

Display

Scale Division Coarse-fine

Pointer Beam pointer with knife-edge

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
⇒ May only be replaced under voltage-free conditions!

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

Contact Protection Finger-safe terminal cover included

Moving-coil movement, 90° scale white, imprint black
Narrow front frame per DIN 43 718, anti-galre glass

Front Dimensions mm Type	48 x 48 DQB 48	72 x 72 DQB 72	96 x 96 DQB 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

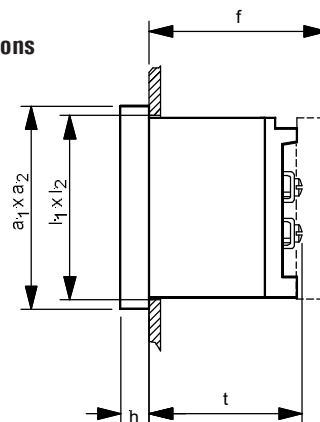
Internal Resistance / Voltage Drop / Power Consumption

Measuring Input	Ri			Tolerance
	DQB 48	DQB 72	DQB 96	
1 mA	250 Ω	150 Ω	150 Ω	± 10 %
20 mA	2 Ω	1.5 Ω	1.5 Ω	± 10 %
4 ... 20 mA	180 Ω ... 60 Ω			
Connection to shunt	Power consumption approx. 7 mA Lead resistance 0.06 Ω (calibrated)			± 10 % ± 10 %
1 A ... 60 A	Voltage Drop approx. 60 mV			± 10 %
≥ 1 V	approx. 1000 Ω/V			± 10 %

Reference Conditions

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

Basic Dimensions



Front in mm	Nominal Dimensions		Cutout Dimensions, mm l ₁ x l ₂	Installation Depth Including Terminals (t), mmM4	Installation Depth Including Full Covers (f), mm
	a ₁ x a ₂	h			
48 x 48	48 x 48	5.5	45 ^{+0.6} x 45 ^{+0.6}	53	66
72 x 72	72 x 72	5.5	68 ^{+0.7} x 68 ^{+0.7}	53	66
96 x 96	96 x 96	5.5	92 ^{+0.8} x 92 ^{+0.8}	53	66

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Range	Scale ¹⁾	Type Order No.	DQB 48 ↓	DQB 72 ↓	DQB 96 ↓
1 mA	0 – 100 % ²⁾		48010 00000 B	72010 00000 B	96010 00000 B
1 – 0 – 1 mA	100 – 0 – 100 % ²⁾		48101 00000 B	72101 00000 B	96101 00000 B
20 mA	0 – 100 % ²⁾		48200 00000 B	72002 00100 B	96002 00100 B
0/4 – 20 mA	0 – 100 % ²⁾		48420 00000 B	72420 00000 B	96420 00000 B
15 A	15 A		–	72015 00000 B	96015 00000 B
25 A	25 A		–	72025 00000 B	96025 00000 B
40 A	40 A		–	72040 00000 B	96040 00000 B
Connection to shunt ... A/60 mV ³⁾					
60 mV	0 – 10 A		48006 00010 B	72006 00010 B	96006 00010 B
60 mV	0 – 15 A		48006 00015 B	72006 00015 B	96006 00015 B
60 mV	0 – 25 A		48006 00025 B	72006 00025 B	96006 00025 B
60 mV	0 – 40 A		48006 00040 B	72006 00040 B	96006 00040 B
60 mV	0 – 60 A		48006 00060 B	72006 00060 B	96006 00060 B
60 mV	0 – 100 A		48006 00100 B	72006 00100 B	96006 00100 B
60 mV	0 – 150 A		48006 00150 B	72006 00150 B	96006 00150 B
60 mV	0 – 200 A		48006 00200 B	72006 00200 B	96006 00200 B
60 mV	0 – 250 A		48006 00250 B	72006 00250 B	96006 00250 B
60 mV	0 – 400 A		48006 00400 B	72006 00400 B	96006 00400 B
60 mV	0 – 600 A		48006 00600 B	72006 00600 B	96006 00600 B
60 mV	0 – 1000 A		48006 01000 B	72006 01000 B	96006 01000 B
60 mV	0 – 1200 A		48006 01200 B	72006 01200 B	96006 01200 B
60 – 0 – 60 mV	60 – 0 – 60 A		48600 60600 B	72600 60600 B	96600 60600 B
60 – 0 – 60 mV	100 – 0 – 100 A		48600 60100 B	72600 60100 B	96600 60100 B
10 V	10 V		48101 01010 B	72001 00000 B	96001 00000 B
25 V	25 V		48252 52525 B	72002 50000 B	96002 50000 B
40 V	40 V		48404 04040 B	72004 00000 B	96004 00000 B
60 V	60 V		48606 06060 B	72006 00000 B	96006 00000 B
500 V	500 V		–	72050 00000 B	96050 00000 B

1) Specify unlisted scales in clear text

2) Scales with special design available for an extra charge

3) Connection to shunt ... A/150 mV with measuring range 150 mV or 150 · 0 - 150 mV also available (plus extra charge for special measuring range);
Specify in clear text in order designation