BQ2107, BQ2207, BQ2307, BQ2407, BQ2507¹⁾

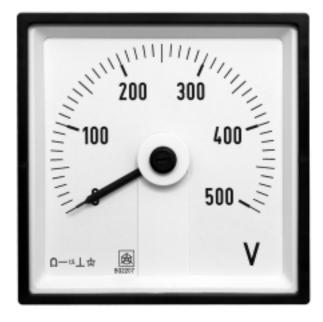
Panel mounted instruments with 240° scale



Q - BO - INSTRUMENTS WITH A MOVING COIL

FEATURES:

- For measurement of DC currents and voltages
- Good read-out survey on larger distance
- Exchangeable dial
- Resistance to mechanical vibrations
- Protective cover for terminals (optional)



Picture 1: Instrument with 240° scale BQ2207

APPLICATION

Measuring instruments with a moving coil BQ... are intended for measurement of direct currents and voltages. They are intended for incorporation into switchboards, consoles and measuring devices where maximum quantity of instruments can be applied at limited area and where good survey and read-out accuracy on larger distances are kept as well.

CONSTRUCTION

The measuring system, made by light and quality materials is not sensitive to external electromagnetic fields and is resistant to mechanical impacts and vibrations.

The meters with exchangeable dial and linear 240° scale have the standardised square casing. The scale length is much longer as the pointer is placed in the centre of the instrument.

TECHNICAL DATA

ACCURACY:

accuracy class

DESIGN:

Material of housing: uninflammable, according to UL 94 V-0

Enclosure protection:Case IP 52, terminal contacts IP 00 (IP 20 for connection terminals) according to EN 60529: 1989

Operating position Vertical Test voltage 2 kV rms

JVF (DIN 40 040)

AMBIENT CONDITIONS

Climatic conditions:

Standards EN 60051-1: 1995/01

according to EN 61010-1: 1990

EN 60051-2: 1984 EN 60051-9: 1988

1,5

Temperature:

Reference range of operation +18 ... +28°C -25 ... +55°C Nominal range of operation -40 ... +70°C Storing

Humidity up to 80% (without condensing)

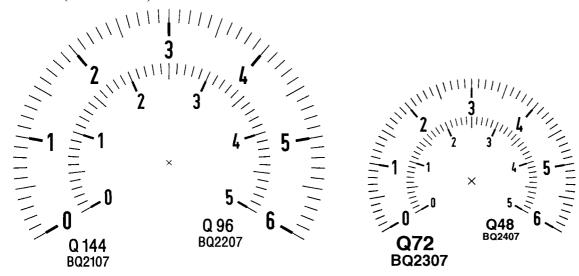
¹⁾For assembly rail mounting according to DIN 46 277 and EN 50022. Bezel measures are 52x45 mm. Technical data are the same as for BQ2407.

MEASURING RANGE:

Measuring rating (μA)					100	120	150	200	250	300	400	500	600	800
Internal resistance (k Ω)					5,9	6,4	5,1	3,9	4	4	2,4	1,5	1,3	0,7
Milliammeters														
Measuring rating (mA)	1	1,2	1,5	2	2,5	3	4	5	6	8	10	15	20	4-20
Internal resistance ($k\Omega$)	370	310	200	97	78	46	25	8,4	15	10	7	5	3,9	75
Measuring rating (mA)					25	40	50	60	100	150	250	400	600	
Voltage drop									60 mV					
Ammeters														
Measuring rating (A)				1	1,2	1,5	2	2,5	3	4	5	6	8	
				10	12	15	20	25	30	40	50	60		
Voltage drop									60 n					
Measuring rating								A	/ 60	mV 1)				
¹⁾ For the connection to separated shunts.														
Milivoltmeters														
Measuring rating (mV)							60	100	150	200	300			
Internal resistance									200 🖸	2/V				
Voltmeters														
Measuring rating (V)				1 10	1,2 12	1,5 15	2 20	2,5 25	3 30	4 40	5 50	6 60	8 80	

SCALE (natural size):

Internal resistance



Picture 2: Drawing of scale BQ2107, BQ2207

Picture 3: Drawing of scale BQ2307, BQ2407

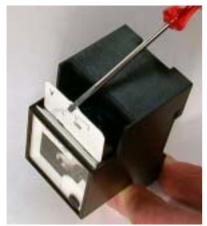
100 120 150 200 250 300 400 500 600

 $1 k\Omega / V$

EXCHANGING OF SCALE

The instrument must be switched off during the exchange procedure.

Press the cover, on top of the instrument, in the direction of the arrow and extract the scale with a suitable tool. After exchanging the scale, carefully close the opening with the cover.



Picture 4: Exchanging of scales



Picture 5: Exchanging of scale

DATA FOR ORDERING:

State the instrument type designation and rating. In case for connection to the measuring transformer, the transformer ratio should also be stated.

EXAMPLE FOR ORDERING

- Milliammeter BQ2207, 10 mA
- Voltmeter BQ2307, 120 kV, for the connection to voltage transformer 100/0,1 kV

When ordering scales, state same data as when ordering the instrument.



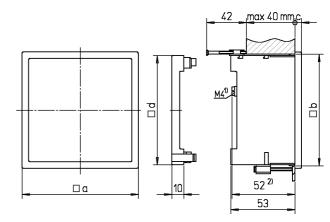
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DIMENSIONAL DRAWING:



Picture 6: Dimensional drawing (all dimensions are in mm)

Type		BQ2107	BQ2207	BQ2307	BQ2407
Bezel (mm)	□ a	144	96	72	48
Panel cut-out (mm)	□ b	138+1,0	92+0,8	68+0,8	45 ^{+0,6}
Bezel height (mm)	с	8,0	5,5	5,5	5,0
Protect cover (mm)	□ d	90	90	66,5	42,5
Scales length (mm)		235	155	113	71
Weight approx. (kg)		0,39	0,25	0,19	0,15

Table 1: Dimensions and weight