

BQ48, BQ72 and BQ96

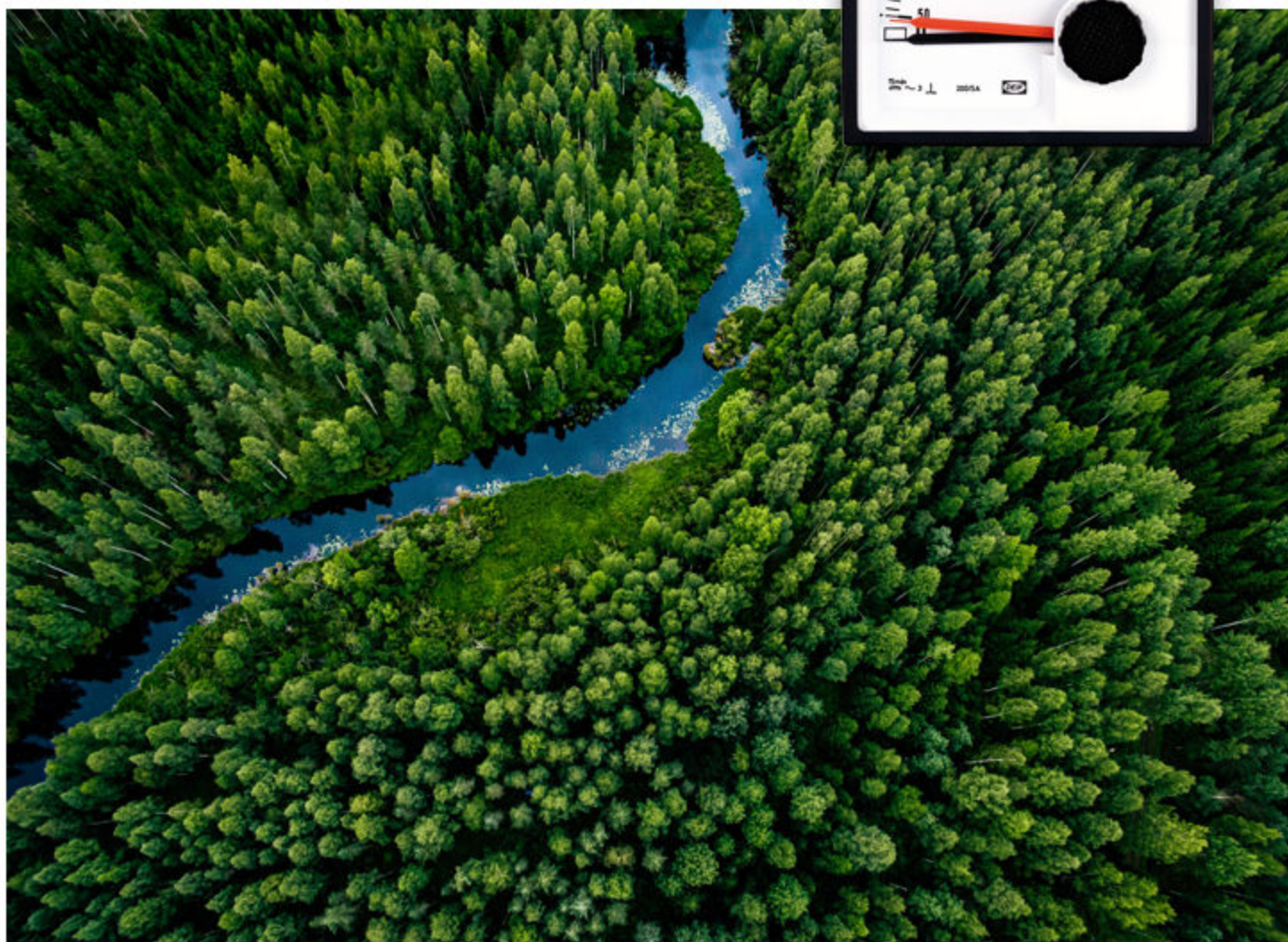
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Bimetallic instruments

Data sheet



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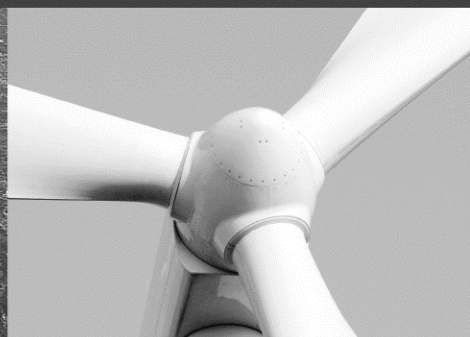
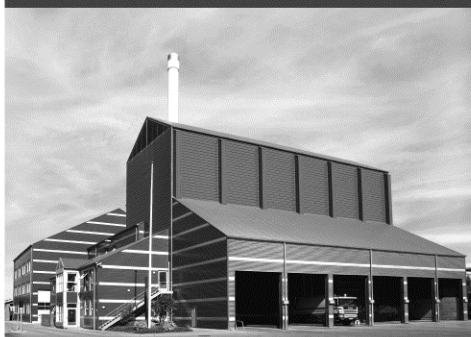




-power in control



DATA SHEET



Bimetallic instruments, Type BQ

- DIN standard sizes: Q48, Q72, Q96
- Exchangeable scale
- All DIN sizes - including Q48 - for direct connection to 1 A or 5 A CT



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Construction

Bimetallic instruments (maximum demand ammeters) are specifically suitable for thermic control of cables, transformers, etc. Due to the inertia of the system, the instrument is not affected by brief current pulses.

The system consists of 2 mechanically connected bimetallic spiral springs. One of the spiral springs is heated by the measuring current and consequently expands according to the temperature, which gives a quadratic scale graduation. The other spiral spring expands in the opposite direction, compensating for changes in the ambient temperature.

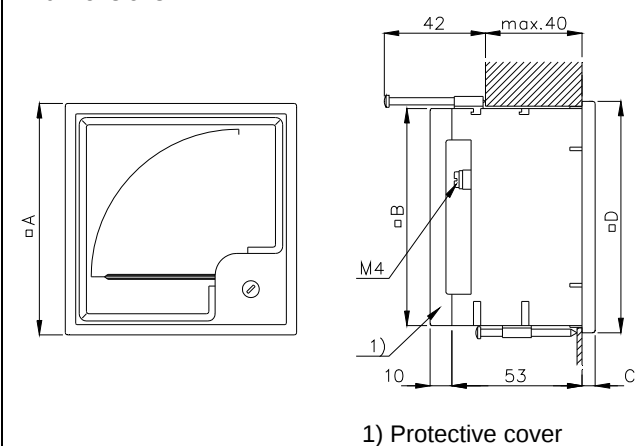
The instrument is provided with a red maximum-reading pointer. This pointer can be reset to the position of the black pointer by means of a knob on the front of the instrument.

Technical specifications

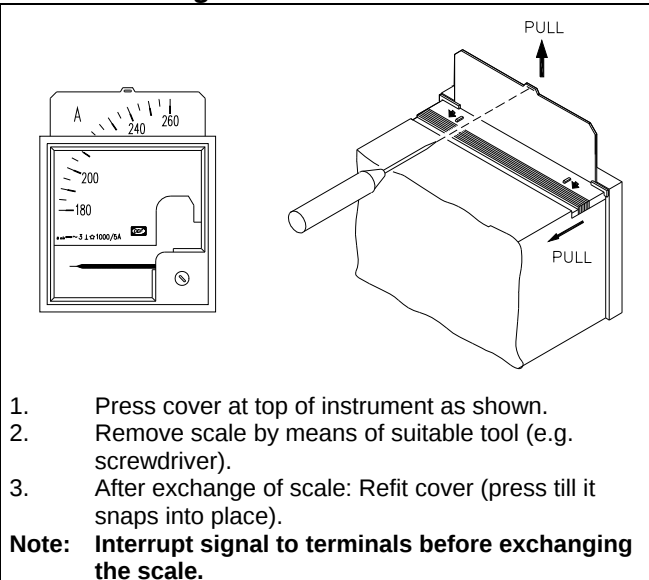
Accuracy:	BQ system: class 3.0 (-10... <u>15</u> ...30...55°C) to EN 60051 and IEC 51
Standard scale:	Always 120% of the current transformer. Exchangeable scale End values: 6-12-18-24-30-36-48-60-72-90-96 and multiples of 10 thereof
Setting time:	BQ48-x: 4 or 8 min. BQ72-x/BQ96-x: 8 or 15 min.
Measuring range:	0...6 A or 0...1.2 A
Overload:	1.2 x nominal current (-/5 A or -/1 A) continuously. 10 x nominal current for 1 s
Burden:	-/1 A: approx. 1.2 VA. -/5 A: approx. 2.2 VA
Temperature:	-10...55°C (nominal), -25...60°C (operating), -25...65°C (storage)
EMC:	To EN 50081-1/2 and EN 50082-1/2 CE-marked for residential, commercial and light industry plus industrial environment
Materials:	Self-extinguishing plastic to UL94 (V0)
Protection:	IP52, to EN 60529 and IEC 529

Dimensions

All dimensions in mm



Scale exchange



BQ

Type	A	B	C	D	Weight
BQ48-x	48 x 48	42.8 x 42.8	5.0	45 x 45 +0.6	Approx. 0.100 kg
BQ72-x	72 x 72	66.5 x 66.5	5.5	68 x 68 +0.7	Approx. 0.150 kg
BQ96-x	96 x 96	90 x 90	5.5	92 x 92 +0.8	Approx. 0.200 kg

Available variants

Item no.	Variant no.	Variant description
2961210420	01	BQ48-x For CT /1 A or /5 A, 4 or 8 min. with standard scale
2961210720	01	BQ72-x For CT /1 A or /5 A, 8 or 15 min. with standard scale
2961210920	01	BQ96-x For CT /1 A or /5 A, 8 or 15 min. with standard scale

Order specifications

Variants:

Mandatory information						Additional options to the standard variant
Item no.	Type	Variant no.	Setting time	Scale	Current transformer (CT)	Option

Example:

Mandatory information						Additional options to the standard variant
Item no.	Type	Variant no.	Setting time	Scale	Current transformer (CT)	Option
2961210420-01	BQ48-x	01	8 min.	0...600 A	500/1 A	Red line at 480 A



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Due to our continuous development we reserve the right to supply equipment which may vary from the described.

