

ANALOGUE MEASURING INSTRUMENTS

BOQ...n - Combined maximum demand indicators



- Class 3 (Maximum demand indicator) y 1.5 (Moving iron ammeter)
- For connection to current transformers
- Secondary 5 A or 1 A
- With interchangeable scale

Description

The maximum demand indicator consists of a bimetallic spiral which is expanded by the heat caused by the current circulating in it, driving the pointer. A second spiral, mounted in the opposition, compensates the effect of the ambient temperature. The ammeter uses a moving-iron movement with silicone oil damping and pivot suspension with spring loaded jewel bearings for vibration and shock resistance. They combine a maximum demand meter and a moving iron ammeter in one instrument. Due to its long response time, short interval current peaks are not registered and the instrument indicates by a black pointer the mean of the r.m.s. current in a specified period of time (15 minutes). The maximum indication is registered by the position of the red pointer, dragged by the black one. By means of a sealable knob it is possible to reset the red pointer to the position of the black one in order to make a new reading. Moreover, they use the moving iron ammeter for measuring the rms value of the current at any racy.

Overload capacity according to DIN 43780

Continuously	1,2 times nominal value
Short duration	10 times nominal value

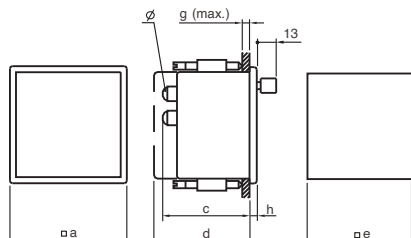
Saturating current transformers shall be used to protect the instruments against overloads exceeding this rating.

Scales

The full-scale value is 1.2 times I_n , (I_n is the rated primary current of the current transformer). 90° scale, quadratic. Coarse-fine division.

Dimensions in mm / Weight in gramme								
Modelo	a	c	d	e	g	h	Ø	Weight
BOQ72n .../5 A	72	55	74	68 ^{+0,7}	8 ¹	4,6	M8	230
.../1 A	72	55	74	68 ^{+0,7}	8 ¹	4,6	M4	220
BOQ96n .../5 A	96	55	74	92 ^{+0,8}	8 ¹	5	M6	290
.../1 A	96	55	74	92 ^{+0,8}	8 ¹	5	M8	280

On request: Other dimensions



Technical Features

Type		BOQ72	BOQ96n
Front frame (mm)		72 x 72	96 x 96
Scale length (mm)	Bimetallic	52	71
	Moving iron	61	90
Consumption	.../5A	3,4 VA	3,4 VA
	.../1A	2,5 VA	2,5 VA
Setting time at transformer 15 min	.../5A	●	●
	.../1A	●	●
Transformer primary current (A) = 100%		Final scale value (A)	
		Bimetallic system 20% overload = 120%	Moving iron system 20% overload = 120%
A	5	6	6
	10	12	12
	15	18	18
	20	24	24
	25	30	30
	30	36	36
	40	48	48
	50	60	60
	60	72	72
	75	90	90
	100	120	120
	125	150	150
	150	180	180
	200	240	240
	250	300	300
	300	360	360
	400	480	480
	500	600	600
	600	720	720
	750	900	900
	800	960	960
	1,0 kA	1,2 kA	1,2 kA
	1,2 kA	1,4 kA	1,4 kA
	1,5 kA	1,8 kA	1,8 kA
	2,0 kA	2,4 kA	2,4 kA
	2,5 kA	3,0 kA	3,0 kA
	3,0 kA	3,6 kA	3,6 kA
	4,0 kA	4,8kA	4,8kA
Terminal cover		●	●

Backside terminal cover for protection according to VBG 4 (Please indicate when ordering)

Connection diagrams BOQ

