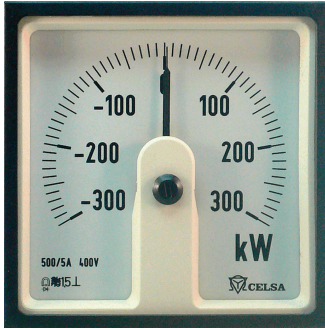


ANALOGUE MEASURING INSTRUMENTS

DAQ...n - Wattmeter Active Power



- For alternating current 50-60 Hz
- Class 1.5
- Scale 240°

Description

DQ wattmeters are used for active power measurement. There are versions for single-phase AC and three-phase with 3 or 4 wires for balanced and unbalanced loads. The frequency range is 50 - 60 Hz.

Ferrodynamic system, with one measuring element for DAQ/1w, DAQ/1d and DAQ/1; two elements for DAQ/2 (aron system), and 2 ^{1/2} elements for DAQ/3. Eddy-current damping, with pivot suspension and spring-loaded jewel bearings for vibration and shock resistance.

Consumption

The consumption per current path is < 0,2 VA

The current consumption in the voltage path is < 3,9 VA

Scales

90° scale, practically linear. Coarse-fine division- The full-scale value must be between 0.2 and 2 times rated apparent power, which is calculated as follows:

- For single-phase AC:

$$S(W) = \text{Primary voltage (V)} \times \text{Primary current (A)}$$
- For three-phase AC:

$$S(W) = \sqrt{3} \times \text{Primary line-to-line voltage (V)} \times \text{Primary current (A)}$$

Unless otherwise indicated, the full-scale value is calculated by rounding S down to one of the following standard value: 1 - 1,2 - 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7,5 - 8 or their decimal multiples.

On request: Zero center. For example, -100-0-100kW

Overload capacity according to DIN 43780

Overload capacity continuously 1,2 I_n.

Dimensions en mm						
Type	a	c	e	g	h	Ø
DAQ96n/1w, /1d, /1	96	134	92 ^{+0,8}	40	5,5	M4
DAQ96n/2, /3	96	134	92 ^{+0,8}	40	5,5	M4
DAQ144n/1w, /1d, /1	144	134	138 ⁺¹	40	5,5	M4
DAQ144n/2, /3	144	134	138 ⁺¹	40	5,5	M4

Technical Features

Front frame (mm)			96 x 96	144 x 144
Scale length (mm)			142	230
Weight (g)			a = 460 b = 510 c = 695 d = 725	a = 900 b = 950 c = 1000 d = 1100
Measuring range	U (V)	I (A)	Type	Type
Single-phase AC			DAQ 96n/1w	DAQ 144n/1w
a ~	57,7 - 63,5	5	●	●
	100 - 110 - 127 230 - 400	1	●	●
Three-phase AC, three wires, balanced load			DAQ 96n/1d	DAQ 144n/1d
b ≅	100 - 110 - 230 400	5	●	●
	440 - 500	1	●	●
Three-phase AC, three wires, unbalanced load			DAQ 96n/2	DAQ 144n/2
c ≅	100 - 110 - 230 400	5	●	●
	440 - 500	1	●	●
Three-phase AC, four wires, balanced load			DAQ 96n/1	DAQ 144n/1
d ≅	100 - 110 - 230 400	5	●	●
	440 - 500	1	●	●
Three-phase AC, four wires, unbalanced load			DAQ 96n/3	DAQ 144n/3
e ≅	100 - 110 - 230 400	5	●	●
	440 - 500	1	●	●

● available ○ on request

Connection diagrams see page 4/16.

