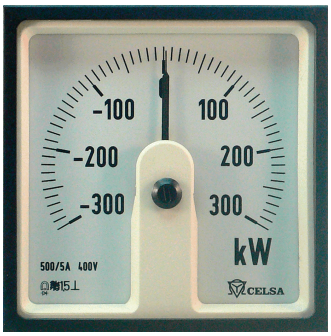
DAQ...n - Wattemeter Active Power



- 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) = Primary voltage (V) x Primary current (A)

- For three-phase AC:
  S(W) = √3x Primary line-to-line voltage (V) x 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.

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

Overload capacity according to DIN 43780

Overload capacity continuously 1,2 I_n.

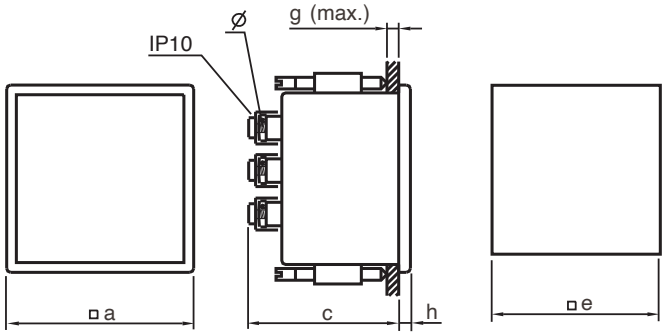
Dimensions en mm						
Type	**a**	**c**	**e**	**g**	**h**	**Ø**
DAQ96n/1w, /1d, /1	96	134	$92^{+0,8}$	40	5,5	M4
DAQ96n/2, /3	96	134	$92^{+0,8}$	40	5,5	M4
DAQ144n/1w, /1d, /1	144	134	138^{+1}	40	5,5	M4
DAQ144n/2, /3	144	134	138^{+1}	40	5,5	M4

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 - 63,5 100 - 110 - 127 230 - 400	5 1	● ●	● ●
Three-phase AC, three wires, balanced load			**DAQ 96n/1d**	**DAQ 144n/1d**
b ≋	100 - 110 - 230 400 440 - 500	5 1	● ●	● ●
Three-phase AC, three wires, unbalanced load			**DAQ 96n/2**	**DAQ 144n/2**
c ≋	100 - 110 - 230 400 440 - 500	5 1	● ●	● ●
Three-phase AC, four wires, balanced load			**DAQ 96n/1**	**DAQ 144n/1**
d ≋	100 - 110 - 230 400 440 - 500	5 1	● ●	● ●
Three-phase AC, four wires, unbalanced load			**DAQ 96n/3**	**DAQ 144n/3**
e ≋	100 - 110 - 230 400 440 - 500	5 1	● ●	● ●

● available ❍ on request

Connection diagrams see page 4/16.



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