

**Instruction Sheet      POWER FACTOR METER****TYPE CQ**

For Analogue Panel Meters type CQ

**1.0 General:**

This meter complies with International standard IEC 1010-1 Amendment 2 for safety and is conforming to routine tests as per IEC 51. The test equipment used is traceable to National / International standards. This product must be used after mounting in panel with hardware supplied, with wires permanently connected to terminal as specified.

**2.0 Meaning of Symbols :**

Caution (refer to accompanying documents).

**3.0 Safety specifications (IEC1010-1-A2)**

- |                    |                         |   |
|--------------------|-------------------------|---|
| * Indoor use       | * Altitude up to 2000 m | * Temp.-10 to + 55° C   |
| * Basic Insulation | * Pollution degree 2    | * Installation Categories<br>(over voltage category) :-300V CAT III |

**4.0 Equipment Installation :**

- \* Due consideration should be given to space behind the meter to allow for bends in connecting cables.
- \* Ensure that wires do not remain under tension.
- \* The products do not have internal protection against overload & short circuit. Hence external safety protection should be provided. It is recommended to install protective device near equipment.

**5.0 Operation & Maintenance :**

- \* Equipment must be installed & maintained by suitably qualified person.
- \* If equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- \* Instruments with damaged bezels or window glasses must be disconnected from mains.
- \* Back cover must be snapped into place for protection against accidental contact.
- \* Disconnect supply before replacing scales, bezels or window glasses.
- \* There are no user serviceable parts in this product. Please contact at the address given, for clarification, if any.

**6.0 Equipment Rating :**

As per information on Sticker & Dial of the instrument.  
Separate instruments are available for measurement of single phase & 3 phase three wire balanced load power factor. For 3 phase four wire balanced load either of the two can be used.

**7.0 Warm - up Time :**

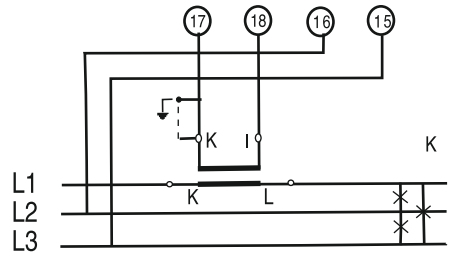
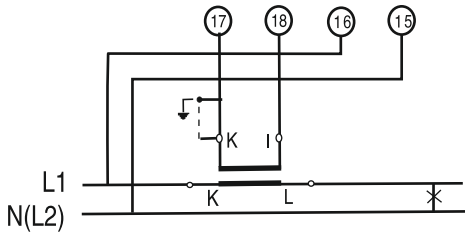
The transducer requires a minimum of 5 minutes with 100% of rated voltage & 80 % of the rated current applied to get warmed up.

**8.0 This product meets the requirement of following EU directives :**

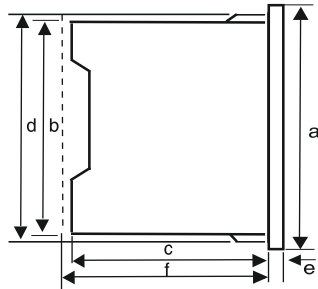
- 1) EMC directive 89/336/EEC as amended by directive 93/68/EEC.
- 2) Low voltage directive 73/23/EEC as amended by directive 93/68/EEC.

CQ 72/96/144 single phase

CQ 72/96/144 three phase balance load



## Dimensions



Dimensions (in mm)	CQ72	CQ96	CQ144
Bezel a	72	96	144
Case b	66	90	136
Depth c	80	53	53
d	67.5	91.5	137.5
e	5.5	5.5	5.5
cutout size	68 <sup>+0.7</sup>	92 <sup>+0.8</sup>	138 <sup>-1</sup>
Weight approx.	0.282 kg	0.6 kg	0.8 kg
Depth with back cover f		64	64