## Power factor meters

**Application**

Power factor meters serve for measuring the ratio between active and apparent power in alternating and three-phase current grids of 50 Hz, 60 Hz or 400 Hz sinusoidal.

**Measuring systems and electronics**

- Core magnet moving-coil measuring system
- Zero point comparator of current and voltage
- Independent of external fields

**Design**

Power factor meters are manufactured according to DIN 60 051 as well as according to the other relevant VDE and DIN regulations. The accuracy amounts to 1.5 % referred to the scale length. The energy consumption lies at around 0.6 VA in the current path or around 2 VA in the voltage path. The auxiliary voltage for the supply of the electronics is gained from the measuring voltage. The voltage range amounts to ± 20 % of the rated voltage, the current range to 20 % to 120 % of the rated current. Exceeding these values may cause indication errors which are larger than the accuracy rating. Currents < 5 % of the rated value result in an uncontrolled indication. The inputs are resistant to a permanent 1.2-fold overload, the current path withstands a temporary max. 20-fold overload. DIN EN 60 051 applies. The electrical connection is done using clamping screws max. 4 mm².

**Special versions**

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>Deviating from the standard measurement ranges</th>
<th>€</th>
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</thead>
<tbody>
<tr>
<td>Special calibration</td>
<td>For 60 Hz or 400 Hz</td>
<td>€ 22.00</td>
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</tbody>
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*from 1. April 2018 plus 3.8 % surcharge*