## Power monitoring in low voltage power distribution

- **Minimize effort (commissioning)**
- **System documentation and archiving**
- **Transparency of energy flows and costs by data recording**
- **Increase system reliability by condition monitoring**
- **Key indicators (dashboard, reports)**
- **Energy management according to ISO 50001/50003**

## Energy management in industrial production plants

- **Minimize effort (commissioning)**
- **Data collection and processing, machine-oriented visualization**
- **Transparency of energy flows and costs from machine to factory level**
- **Key indicators (dashboard, reports)**
- **Energy management according to ISO 50001**

### Key Components

- **SENTRON powermanager**
  - Location-independent use
  - Use at the switchgear and production plant
  - On the device / the machine
  - Webinterface

- **SENTRON 7KN Powercenter 3000**

- **SIMATIC Energy Manager MindSphere App**

- **SIMATIC Energy Manager**

- **SIMATIC Energy Suite**

- **S7 Energy Efficiency Monitor**

- **TIA Portal**

- **WinCC**

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###Further Information

You will find further information at:

- **SENTRON powerconfig**
- **SENTRON powermanager**
- **SIMATIC Energy Manager**
- **SIMATIC Energy Suite**
- **S7 Energy Efficiency Monitor**
- **TIA Portal**
- **WinCC**

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**SENTRON & SIMATIC software solutions for power monitoring and energy management**

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<table>
<thead>
<tr>
<th>SENTRON portfolio for power monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The flexible solution for multifunctional measuring in final circuits</strong></td>
</tr>
<tr>
<td><strong>The entry-level solution when it comes to energy management</strong></td>
</tr>
<tr>
<td><strong>The efficient solution for multifunctional current measurement in the main distribution</strong></td>
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<tr>
<td><strong>The energy meter solution for kWh recording</strong></td>
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<tr>
<td><strong>The cost-effective solution for digital measurement</strong></td>
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<tr>
<td><strong>The compact solution for precise energy measurement</strong></td>
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<tr>
<td><strong>The specialist solution for communication and monitoring</strong></td>
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<td><strong>The specialist solution for measurement, recording and power quality</strong></td>
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<td><strong>The class A solution for power supply quality</strong></td>
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<td><strong>The integrated energy solution for automation</strong></td>
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<td><strong>The specialist solution for protection and energy measurement</strong></td>
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<td><strong>The incoming circuit breaker with communication</strong></td>
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**LIL E C A**

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**Apparatus (active | reactive energy | (1) Measured in data product? product?7KT12**

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**Maximum input voltage:**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Voltage</th>
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<tbody>
<tr>
<td>400 V</td>
<td>230 V</td>
</tr>
<tr>
<td>456 V</td>
<td>264 V</td>
</tr>
<tr>
<td>480 V</td>
<td>277 V</td>
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<td>480 V</td>
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<td>690 V</td>
<td>276 V</td>
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<td>690 V</td>
<td>277 V</td>
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<td>690 V</td>
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<tr>
<td>690 V</td>
<td>400 V</td>
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<tr>
<td>690 V</td>
<td>400 V</td>
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**DI / DO**

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**Order information**

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**Plug & operate solution for the digitalization of low-voltage power distribution**

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**Your Benefits:**

- **Minimization of security efforts**
- **Early detection and prevention of downtimes**
- **Reduction of error frequency and duration**
- **Easy digitalization of brownfield projects**
- **Basis for energy management (ISO 50001)**