



EDGE/IOT-BASED POWER AND CONDITION MONITORING

7KN Powercenter 3000 – your easy entry into transparent power distribution

Heating, air-conditioning, lighting, ventilators – do you ever know how much power you're consuming at any specific time, or in any specific location? Operators of small and medium-sized enterprises and smaller industrial plants, in particular, often find there is no ideal way to launch into operational power monitoring. But being able to monitor your power consumption in these areas is a prerequisite for keeping your power requirements – and thus your costs – under control.

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Your central switchgear-communications interface

This is where the 7KN Powercenter 3000 comes in. This Cloud-based platform lets you enjoy the benefits of digitalization in power distribution. It's a compact device that will fit into any control cabinet, where it serves as a central IoT data interface. Power values such as electricity and voltage are recorded by communication-capable devices in our SENTRON portfolio and transmitted to the 7KN Powercenter 3000, which presents the data clearly for you. That gives you an overview of your power consumption and condition information. The bottom line is the following benefits, which all contribute to the aspect of sustainability: More efficiency. Improved security. And improved availability.

Highlights

- **Cost-efficient entry** into power management in accordance with DIN ISO 50001
- **Clear presentation of power values,** and also condition and status information
- **Transparency regarding power consumption** helps you improve your energy efficiency
- **Secure operation** thanks to alarm and messaging function, for example
- **Condition monitoring** ensures high plant availability

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One IoT data platform, many applications

The 7KN Powercenter 3000 ensures easy power monitoring either directly via a web interface, or in combination with SENTRON powermind via a cloud interface.



Buildings

E.g. hotel chains, shopping malls, research facilities: Location-independent and multi-location power monitoring via standard IT networks, with cost center-specific billing



Industrial plants

E.g. large bakeries, automotive industry, furniture industry: Identify existing peak loads quickly and prevent them in the future using trend analyses



Infrastructure

E.g. data centers, logistics centers, hospitals: Avoid system outages and critical situations in your power supply system



Efficiency through transparency

You can only take steps to improve your power consumption when you know how much power is being consumed, and where. Digitalization in low-voltage power distribution helps you identify sources of wasted power and recognize hidden potentials for savings. Another benefit is that you will meet all the requirements for demonstrating a continuous improvement in energy efficiency as defined in ISO 50001 and also ISO 50003, which it incorporates – and thus satisfy the prerequisites for a subsidy for your power management system.



Safety through reliability

Only a reliable power supply system will guarantee smooth operation. This is another reason for you to rely on the 7KN Powercenter 3000. It will let you identify potential outages at an early stage so you can prevent them. The 7KN Powercenter 3000 has a signal function via the web interface and via email. Whether it's information, warnings, or alarms, you'll get the alerts you need, and you can also take appropriate action by remote access to the data. By quickly locating the sources of errors, you can reduce them and improve protection for both people and plant.



Availability through predictive maintenance

Measurement and communication-capable SENTRON protective circuit breakers are integrated into our 7KN Powercenter 3000 platform solution. That means you get access to data such as status, the triggering event, temperature, and hours of operation. In other words, you can optimize your maintenance management to ensure high availability. You're informed at all times about the health of your protection devices and switchgear, and can record condition information. As a result you can plan maintenance activities better and reduce downtimes.

Discover additional information under the following links:

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