

# SENTRON powermind Package Product Sheet



The MindSphere application SENTRON powermind provides transparency for your power distribution. It allows to store, analyze, and visualize data from your power distribution system. Dashboards such as actual power consumption, load curves, Sankey diagram as well as several energy data widgets to compare historical data are provided within this application.

The SENTRON powermind Package consists of the MindSphere application SENTRON powermind and selected MindSphere Resources which are required to access the Platform and to utilize the application.

Prerequisites	
Data sources	As of the date of release of this Product Sheet only the following data sources can be used to supply data to SENTRON powermind: <ul style="list-style-type: none"> <li>Hardware: SENTRON Powercenter 3000 with firmware V1.3 or higher</li> </ul> These products need to be purchased separately (e.g. via Industry Mall, <a href="https://mall.industry.siemens.com/">https://mall.industry.siemens.com/</a> ) under separate terms and conditions.
SENTRON devices	SENTRON devices e.g. SENTRON PAC meters, SENTRON breakers 3VA, 3WL, 3WA etc. as a part of a smart switchgear assembly are supported. For further details please refer to <a href="https://www.siemens.com/powermonitoring">https://www.siemens.com/powermonitoring</a> .
Web browser	An HTML5 capable Internet browser with a screen resolution of 1920x1080 or higher is required (e.g. Google Chrome or Microsoft Edge). Google Chrome is recommended. Mobile devices are supported by using HTML5 capable Internet browsers.
Data access	To access and use the application, data stored in your existing Account (e.g. Base Environment or MindSphere Capability Package Account) may be accessed by the application.

Description of SENTRON powermind application	
General	The SENTRON powermind application allows you to analyze and visualize data from your power distribution system. The following views are provided as part of this application: <ul style="list-style-type: none"> <li>Current power consumption and power factor,</li> <li>Historical energy and power demand values (with comparison feature) in load curves and bar charts.</li> </ul>
Premium Analytics	The Premium Analytics add-on offers several widgets e.g. "Top10 Consumer", "Load Duration Curve" to analyze the energy related data further. These widgets help you to identify the biggest energy consumers and analyze their behavior pattern in a customizable time frame. As an example: based on these analytics

	the User is able to assess whether a Load Management System makes sense and derive the major parameter to reduce energy waste and the associated costs. These widgets are applied to the home screen, each location and parts of this location.
Data update rate	The data update rate is defined by the application to balance user needs and costs. Instantaneous data values are updated every 10 sec. Historical data values contain 15 min values.

## Description of MindSphere Resources

The following MindSphere resources (“MindSphere Resources”) are included in the SENTRON powermind Package. These have been selected to ensure proper operation of SENTRON powermind application.

Base Environment	<p>The Base Environment provides you with a dedicated Account (also referred to as “Environment”) on MindSphere. It enables you to login to your Account via the respective URL provided by us and is required for use of the application and MindSphere Resources.</p> <p>The Base Environment includes 1 Admin User and provides you with the following administration tools available on the MindSphere Launchpad:</p> <ul style="list-style-type: none"> <li>• Usage Transparency: provides information regarding your consumption of MindSphere Resources.</li> <li>• Agent Diagnostic: allows you to activate and deactivate agent logfiles and to access them.</li> <li>• Settings: allow managing Users, permissions, rights, roles, groups, Collaborations, and environment provider information. For every User, an individual login is required. Access policies are available only upon request. MindSphere sales representative or MindSphere Support to be contacted to enable use of access policies.</li> <li>• Asset Manager: use Asset Manager to onboard &amp; offboard agents to your Account; to configure assets, asset types and aspect types; to manage the Sharing of assets under a Collaboration between Accounts using Cross-Tenancy.</li> <li>• Upgrade: can be used to order available upgrades (incl. add-ons) to already Offerings; to get an overview of requested and completed upgrades; to manage pending upgrade requests (authorized Users only).</li> </ul> <p>The Base Environment provides you with the following connectivity “Connect your Things” capabilities as well:</p> <ul style="list-style-type: none"> <li>• To connect assets using own PC as a gateway with MindConnect Software Agent.</li> <li>• To connect individual hardware using MindConnect API services, MindConnect MQTT Services, MindConnect OPC UA PubSub Services and MindConnect Library.</li> <li>• To use MindConnect Hardware e.g. MindConnect Nano, MindConnect IoT2040, MindConnect IoT2050.</li> <li>• Zero touch onboarding using MindConnect OPC UA PubSub Services and MindConnect MQTT Services.</li> <li>• To maintain connected devices by using MindConnect Device Management Services.</li> </ul> <p>For more information regarding Connect your Things capabilities, please refer to the Product Sheet for MindSphere Capability Packages available at <a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/MindSphere-Product-Sheets">https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/MindSphere-Product-Sheets</a>.</p>
Additional MindSphere Resources	<p>In addition to the Base Environment, the following MindSphere Resources are included in the SENTRON powermind Package and its extensions:</p> <ul style="list-style-type: none"> <li>• Asset Attributes</li> <li>• File Storage</li> </ul>

	<ul style="list-style-type: none"> <li>• Time Series Data Ingest Rate</li> <li>• Time Series Data Storage</li> <li>• Subtenants</li> <li>• Users</li> </ul> <p>For general descriptions of the MindSphere Resources listed above, please refer to the MindSphere <a href="#">Glossary</a>.</p>
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## SENTRON powermind Package Overview

Application subscription	SENTRON powermind Package			
Fee	See Order <sup>1</sup>			
Billing cycle	Full amount in advance			
The SENTRON powermind Package contains the following MindSphere Resources and can be used to onboard 3 SENTRON devices.				
SENTRON powermind application	✓			
Base Tenant <sup>1</sup>	✓			
Users	1 000			
Asset Attributes	50			
Time Series Data Ingest Rate	10 Byte/s			
Time Series Data Storage	4.5 GB			
Extensions (for MindSphere Resources)	SENTRON powermind Package Devices extensions			
	Usage-based			
	5 Devices Extension	10 Devices Extension	20 Devices Extension	100 Devices Extension
Fee	See usage-based list <sup>3</sup>			
Billing cycle	Monthly in arrears			
The SENTRON powermind Package Devices extensions contain the following additional MindSphere Resources and depending on the selected SENTRON powermind Package Devices extensions size, you are able to onboard 5/10/20/ 100 SENTRON devices. These extensions can only be activated within the SENTRON powermind application.				
Asset Attributes	85 additional Asset Attributes	170 additional Asset Attributes	340 additional Asset Attributes	1 700 additional additional Asset Attributes
Time Series Data Storage	7.5 GB additional Time Series Data Storage	15 GB additional Time Series Data Storage	30 GB additional Time Series Data Storage	150 GB additional Time Series Data Storage
Time Series Data Ingest Rate			10 Byte/s additional Time Series Data Ingest Rate	20 Byte/s additional Time Series Data Ingest Rate
Extensions (for MindSphere Resources)	SENTRON powermind Package Asset Attributes Extension			
	Usage-based			
Fee	See usage-based list <sup>3</sup>			
Billing cycle	Monthly in arrears			
Asset Attributes	50 additional Asset Attributes			

Extensions (for MindSphere Resources)	SENTRON powermind Package Data Ingest Extension
	Usage-based
Fee	See usage-based list <sup>3</sup>
Billing cycle	Monthly in arrears
Time Series Data Ingest Rate	10 Byte/s additional Time Series Data Ingest Rate
Extension (for application)	SENTRON powermind Package Premium Analytics Extension
	Usage-based
Fee	See usage-based list <sup>3</sup>
Billing cycle	Monthly in arrears
Premium Analytics	✓

<sup>1)</sup> Subscription-based pricing is set forth in the Order; <sup>2)</sup> You can decide if a Base Environment shall be created and provisioned to you as part of your SENTRON powermind Package or if the SENTRON powermind Package (without a Base Environment) shall be added to an existing Account (Base Environment or MindSphere Capability Package Account). A Package can only be added to an existing Account if the Account and Package are hosted in the same data center location. If you decide to add various Packages to one existing Account, please note the following: The MindSphere Resources included in the various Packages will be combined under one Account; it is your responsibility to allocate the MindSphere Resources to the various Packages according to your needs. The combination of MindSphere Resources under one Account may lead to technical limitations in their accessibility <https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/technical-limitations>; <sup>3)</sup> Usage-based fees are set forth in the Price List for Offerings with Usage-based Fees available at <https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/usage-based>.

General	
Subscription Term	The standard Subscription Term for the application is 12 or 36 months, and extensions (excluding usage-based) are 12 months. The Subscription Term shall automatically renew if stated in the Order. If you decide not to renew, in such case you are responsible for offboarding your relevant Assets and exporting historical data prior to the expiration date.
Extensions (usage-based)	Any of the extensions (usage-based) described herein may be activated or deactivated at any time during a valid Subscription Term for SENTRON powermind Package. Upon activation and until deactivation of a usage-based extension described herein, the fee for the relevant extension is charged on a daily basis monthly in arrears. For further details about calculation of usage-based fees please refer to Usage-based Calculation Methods for MindSphere Applications available at <a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/app-usage-based-calculation">https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/app-usage-based-calculation</a> .
Payment terms	The fee for SENTRON powermind Package subscription is fully charged in advance for the entire Subscription Term unless otherwise expressly provided in an Order. The fee for usage-based extensions is charged monthly in arrears, if the cumulated fee exceeds the threshold of EUR 200 equivalent. If the cumulated fee for the usage-based extension does not exceed the threshold of EUR 200 equivalent, the fee will not be charged.
Trial	SENTRON powermind Package is available as a "Trial" version. The Trial term and conditions are defined in the MindSphere Supplemental Terms available on <a href="http://www.siemens.com/sw-terms/supplements">www.siemens.com/sw-terms/supplements</a> .
Service Level Agreement	The Monthly Availability for the SENTRON powermind Package is 95%. Monthly Availability is defined in the Cloud Services Support and Service Level Framework available on <a href="https://www.siemens.com/sw-terms/sla">https://www.siemens.com/sw-terms/sla</a> .
Application use rights	This application can be used as part of OEM Services as described in the MindSphere Supplemental Terms available on <a href="http://www.siemens.com/sw-terms/supplements">www.siemens.com/sw-terms/supplements</a> .

Third-Party Terms	The Third-Party Terms for SENTRON powermind application are made available via the following link: <a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms">https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms</a> .
Support	Support may be contacted via Industry Online Support <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> . Support is available in English and German.

## Export Control Regulations

Applicable for SENTRON powermind application and MindSphere Resources.

AL	N
ECCN	N

## Security Information

General	In order to protect plants, systems, machines and networks against cyber threats, it is necessary that you implement and continuously maintain a holistic, state-of-the-art industrial security concept.
Secure communication	Data transmission will be done via HTTPS protocol from Asset to your Account.
Encryption standard	TLS 1.2 for communication between Asset and Account is used.

## Definitions

Asset	An Asset is the logical representation of a thing which can be a machine or an automation system with a single unit e.g. PLC or CNC - Controller. Assets are defined using an Asset type.
General	Unless otherwise indicated, capitalized terms used in this document shall have the meaning given to them in this document or elsewhere in the Agreement. You may also want to check our <a href="#">Glossary</a> .