What is more, with a power monitoring system you lay the foundation for regular energy audits and a corporate energy management system according to ISO 50001 and ISO 50003.



Measuring Devices, Power Monitoring and Digitalization Solutions



A multitude of additional information ...

Information + ordering



All the important things at a glance

For information about measuring devices, power monitoring and digitalization solutions, please visit our websites

www.siemens.com/powermonitoring www.siemens.com/sentron-digital



i Your product in detail

The Siemens Industry Online Support (SIOS) provides comprehensive information

www.siemens.com/lowvoltage/product-support

- - SENTRON portfolio for power monitoring (109744725)
 - SENTRON powermanager update and benefit (109805178)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications



Siemens YouTube channel

• Power monitoring (general) bit.ly/2IZ9QqC



Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Measuring devices and power monitoring sie.ag/2kTH9Lz
- Digitalization solutions sie.ag/2olliNi
- Library for SIMATIC sie.ag/2kpbwcs
- SENTRON powermanager/SENTRON powerconfig sie.ag/2kTJjuF

Direct forwarding to the individual products in the Industry Mall by clicking on the article number in the catalog or entering this web address incl. article number www.siemens.com/product?Article No.



Configurators

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations.

Configure your 7KM PAC and 7KT PAC measuring device at www.siemens.com/lowvoltage/pac-configurator



The fast track to the experts

Contact persons in your region

We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/components/contact

You will find further information on services at www.siemens.com/service-catalog

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical gueries is provided at www.siemens.com/support-request

... can be found in our online services

Commissioning + operation



Your product in detail

The Siemens Industry Online Support (SIOS) provides detailed technical information www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the App Store and Play Store

You will find further information at www.siemens.com/support-app

Provision of 3D data (step and u3d data formats)

- Siemens Industry Mall www.siemens.com/lowvoltage/mall
- Image database www.siemens.com/lowvoltage/picturedb

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/cax



Face-to-face or online training

Our training courses can be found at www.siemens.com/sitrain-lowvoltage

- Digitalization in power distribution boards (WT-LVDIGI)
- SENTRON circuit protection devices with measuring and communication function (WT-LVBCOM)
- Power Monitoring with SENTRON (WT-LVAEM)
- Energy Management with SENTRON powermanager -User training (LV-PM)
- SENTRON powermanager graphic module -User training (LV-PMG)

SENTRON powerconfig

The combined commissioning and service tool SENTRON powerconfig for communication-capable measuring devices, circuit protection devices and circuit breakers.

Free download SENTRON powerconfig www.siemens.com/powerconfig

Free download SENTRON powerconfig mobile via App Store and Play Store



Manuals

Manuals are available for downloading in Siemens Industry Online Support (SIOS) at

www.siemens.com/lowvoltage/manuals

- Configuration Manual
- Measuring devices and power monitoring (45315973)
- Equipment Manual
 - 7KT PAC1600 energy meter (109759827)
 - 7KT PAC1600 multimeter (109760293)
 - 7KM PAC2200 power monitoring device (109746835) 7KM PAC2200CLP power monitoring device
- (109783220)
 7KM PAC3200T power monitoring device
- (109746833)
- SENTRON PAC5100/5200 7KM5212/5412 (109477872)
- 7KM PAC3120 and 7KM PAC3220 (109767307) 7KN POWERCENTER 3000 (109763838)
- System Manual
 - 7KT multichannel current measuring system (109483442)
 - SENTRON PAC4200 power monitoring device
 - SENTRON circuit protection devices with communication and measuring function (109791806)
- Communication Manual
 - SENTRON PAC5100/5200 7KM5212/5412 (109477870)
- 3VA molded case circuit breakers with IEC and UL certification (98746267)
- SEM3TM
- Embedded Micro Metering Module™ (109748928)
- Quick Installation Guide
- 7KN POWERCENTER 3000 (109766001)
- Installation Manual
 - SENTRON circuit protection devices with communication and measuring function (109791805)



Technical overview – Measuring devices, power monitoring and digitalization solutions



The fast way to get you to our online services

This page provides you with comprehensive information and links on measuring devices, power monitoring and digitalization solutions

www.siemens.com/lowvoltage/product-support (109764480)

Power monitoring

Software

Local monitoring systems

Web

Mobile App





Web interface integrated

SENTRON powerconfig

1)

Functions for power monitoring

Additionally for energy management

Switching loads on and off –

 Operating environment
 Use
 Free of charge
 Free of charge

 System requirements
 Browser
 Android, iOS

 Suitable according to ISO 50001

 Connection of non-Siemens devices Integrated cloud interface

Data analysis in the cloud

Further information From page 10/12

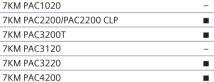
Measuring devices, circuit breakers and circuit protection devices

Measuring devices for industrial applications









Measuring devices for buildings and infrastructure













3WA

7KM PAC5200

PAC1600 13/SEM3T

- -

Circuit breakers









3WL	_
3WL10/3VA27	_
3VA ETU5/8	-

Communication-capable circuit protection devices









7KN Powercenter 1000/ 5ST3 COM AS+FC/ 5SL6 COM MCB/ 5SV6 COM AFDD/ 3NA COM Fuse

3NA COM Fuse

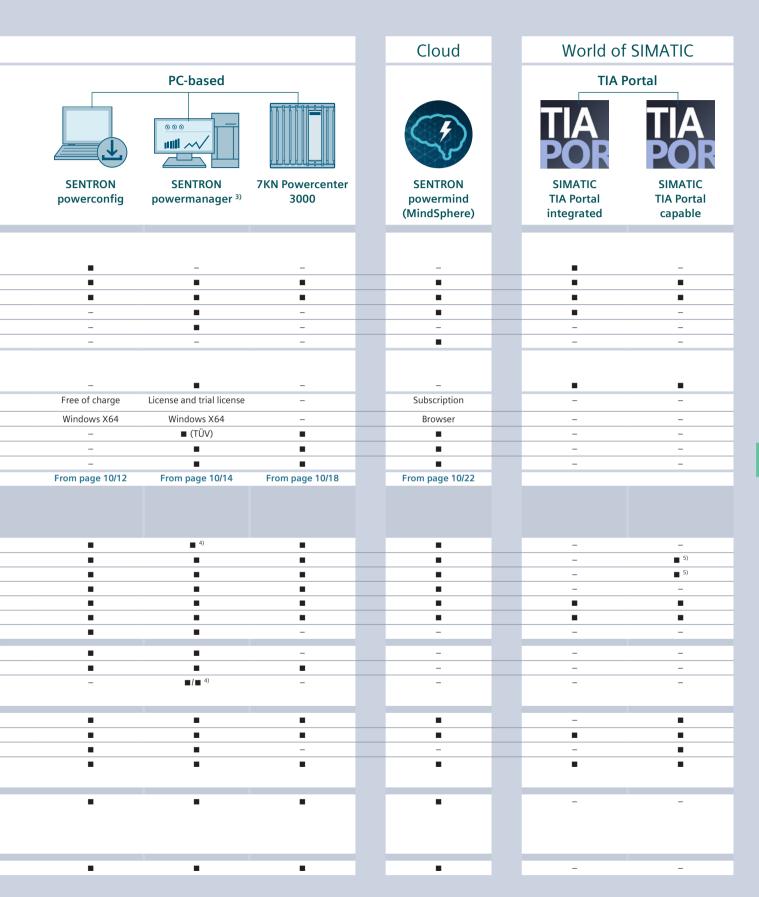
■ Function available

Other Modbus devices

- Function not available
- 1) Via WiFi 2) Via gateway (PAC4200)
- 3) Incl. module for Desigo CC building management

4) Via XML/JSON

5) Via SPP2000



Hardware components

Industry 7KM 7KM 7KM **7KM** 7KM PAC1020 **PAC2200 PAC2200 PAC3200T** PAC3120 PAC3220 **CLP** Type of mounting Front mounting | DIN rail | Screw mounting -101-Withdrawable | Fixed-mounted Measuring connection Direct measurement Transformer measurement Multichannel measuring system Suitable transformers Window-type current transformers Folding transformer Integrated transformer Commissioning MID/PTB-A50.7 version Max. input voltage L-L/L-N 400 V/230 V 400 V/230 V 400 V/230 V 400 V/230 V 690 V/400 V Transformer connection version x/1 A or x/5 A Direct connection version DC power supply unit with 24 ... 60 V DC ±20 % 24 ... 60 V DC ±20 % extra-low voltage version 1-phase counter version Electrically isolated voltage inputs Version without display (for web interface) Evaluation Measured quantities Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage > 221 days > 10 years > 221 days > 221 days > 221 days Monthly energy storage > 25 months > 10 years > 25 months > 25 months > 25 months Yearly energy storage > 10 years > 7 years Apparent | Active | Reactive energy | p.f. | power factor Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 **Monitoring functions** Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communications interfaces 1/1 Digital inputs/digital outputs S0 interface M-Bus RS485 (Modbus RTU) Ethernet with Modbus TCP **BACnet Further information** See page 10/26 See page 10/26

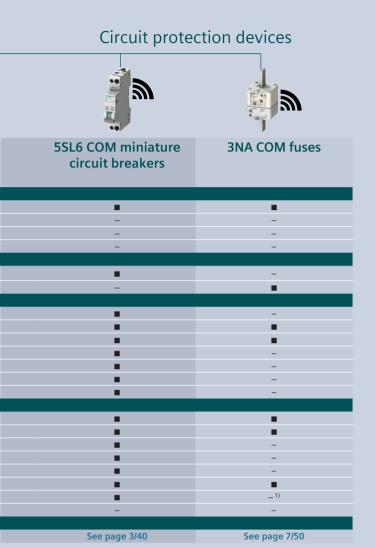


Hardware components

Circuit protection devices

		M	
	7KN Powercenter 1000	5ST3 COM auxiliary switches and fault signal contacts	5SV6 COM AFDD/MCB
Communications interfaces			
Radio link			
Modbus TCP		-	-
Bluetooth		-	-
Gateway function		-	-
Type of mounting			
DIN rail			
Busbar	-	-	-
Evaluation			
Switching state	-		
Temperature	-		
Current	-	-	•
Voltage	-	-	•
Frequency	-	-	•
Apparent, reactive and active power, power factor	-	-	•
Reactive and active energy	-	-	
Monitoring functions			
Operating hours counter	•	•	•
Operating hours counter with load current	-	-	•
Operating cycles counter	-	•	•
Trip counter	-	•	•
Short-circuit trip counter	-	-	•
Alarms for limit monitoring	•	•	•
Detection of overload and short circuit	-	-	•
Detection of arcing faults	-	-	
Further information			
	See page 10/20	See page 3/52 and 4/62	See page 4/54

¹⁾ Protection function provided, but tripping is not communicated



Accessories

Communication modules



Expansion modules



Current transformers



3,222,222	********		The state of the s	
7KM PAC 4DI/2DO	7KM PAC I(N), I(Diff), analog	4NC	7KT	3NJ calibrated
-	-			
-	-			
-	-	-	-	
-	-			
-	-	•		
-	-	•	•	•
-	-	-	-	-
-	-			•
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

SENTRON powerconfig

Configuration software for commissioning and maintenance

SENTRON powerconfig is available free of charge at www.siemens.com/powerconfig

You will find further information on the internet at www.siemens.com/sentron

- Software tool for the efficient commissioning and diagnostics of communication-capable SENTRON components
- Supports all electronic SENTRON devices, e.g. 3WA, 3WL, 3VA, 7KN Powercenter 3000 and 7KN Powercenter 1000, with 5ST3 AS+FC COM, 5SL6 MCB COM, 5SV6 AFDD COM and 3NA Fuse COM
- General range of functions:
 - User-friendly parameter assignment even for complex devices such as the 3WA
 - Fast, optical detection of communication and measuringcapable circuit protection devices, such as 7KN Powercenter 1000
 - Saving and printing of device settings
 - Monitoring, saving and printing of instantaneous measured quantities
 - Execution of specific device functions, such as resetting of devices and setting of energy meters

Free download SENTRON powerconfig mobile via:

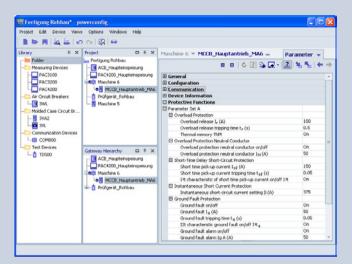


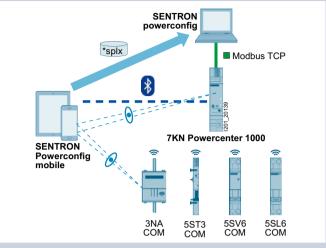


App Store

Play Store

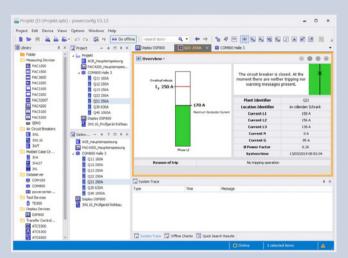
- Service functions:
 - Detection of devices and acquisition of measured quantities and status information via different networks, e.g. via
 - Device and status acquisition via local interfaces, such as Bluetooth and USB
 - Acquisition and archiving of historic records, such as load profiles and events
 - Firmware updates
 - Switching of language packs for 7KM PAC measuring devices
- Cooperative interaction between powerconfig mobile and powerconfig on the PC:
 - powerconfig mobile offers a high degree of mobile versatility, e.g. to scan codes on the circuit protection devices
 - powerconfig on the PC can be used for subsequent editing and archiving of the system configuration



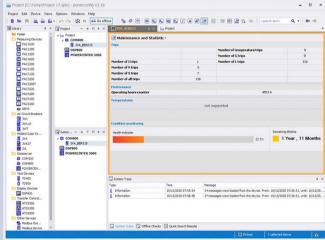


Setting of parameter values

Scanning of circuit protection devices



Display of the circuit breaker status



Display of the state of health of the 3VA

SENTRON powermanager

PC-based power monitoring software





SENTRON powermanager

SENTRON powermanager is based on the modern Desigo CC platform with advanced graphical capabilities and a standard SQL database. The workflows for setting up the system, creating devices, graphically displaying the device data and processing it in reports have been fundamentally revised.

You can find the latest download and change information in the SIOS portal at

www.siemens.com/lowvoltage/product-support (109771760)

Updates and upgrades of version 4.x or higher are based on the SUS/SUR principles.

You will find further information in the brochure – SENTRON powermanager – update and benefit

www.siemens.com/lowvoltage/product-support (109805178)

If you wish to migrate from classic powermanager (3.6) to the current version, please get in touch with your local Siemens contact.

The "Trial" license gives customers the opportunity to gain initial experience with SENTRON powermanager during a 60-day test phase. The application can still be used by purchasing a regular license.

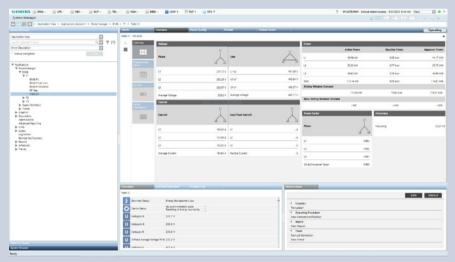
You will find further information on the internet at www.siemens.com/powermanager

You will find training courses on the internet at www.siemens.com/sitrain-lowvoltage

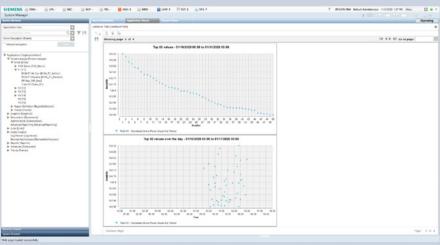
Version	Description	Article No.
powermanager		
Extended Package	Full product license for up to 10 devices, installation for client/server, web access	7KN2710-2CE40-0YC0
Trial license	Full product license limited to 60 days for up to 10 devices, incl. all functions; software download via SIOS Portal www.siemens.com/lowvoltage/product-support (109771760) A free license for one-time use (limited to 60 days) must also be requested via powermanagerlicence.de@siemens.com	
Device expansions		
Device Pack (20)	Device expansion license for up to 20 devices	7KN2711-1CE40-0YC0
Device Pack (50)	Device expansion license for up to 50 devices	7KN2711-2CE40-0YC0
Device Pack (100)	Device expansion license for up to 100 devices	7KN2711-3CE40-0YC0
Device Pack (200)	Device expansion license for up to 200 devices	7KN2711-4CE40-0YC0
Device Pack (500)	Device expansion license for up to 500 devices	7KN2711-5CE40-0YC0
Device Pack (1000)	Device expansion license for up to 1000 devices	7KN2711-6CE40-0YC0
Option packs		
"Graphics Editor 60 Days" option pack	Option for creating any number of freely configured graphics, validity period limited to 60 days	7KN2712-0CE40-0YC0
"Graphics Editor Unlimited" option pack	Option for creating custom-made SENTRON powermanager applications, e.g. graphics; especially suitable for partners such as Solution Providers, control cabinet builders, etc.	7KN2712-0CE40-0YC1
"Client (2)" option pack	Expansion for up to 2 clients	7KN2712-1CE40-0YC0
"Client (5)" option pack	Expansion for up to 5 clients	7KN2712-2CE40-0YC0
"powermanager Server" option pack	Additionally, powermanager server license for distributed systems without devices, web, etc.	7KN2712-4CE40-0YC0
Powermanager SUR-Unit	Update – Extend subscription period by 12 months	7KN2713-7CE40-0YC0 new
Powermanager SUS-Unit	Update – Start new 12-month subscription period	7KN2713-8CE40-0YC0 new
System packages		
System 1	Package comprising 1× powermanager Extended 1× PAC4200 1× PAC3120 1× RS485 modules	7KN2715-1CE40-0YC0
System 3	Package comprising 1× powermanager Extended 3× PAC3220	7KN2715-3CE40-0YC0
System 4	Package comprising 1× powermanager Extended 1× PAC4200 4× PAC1600 1× RS485 module	7KN2715-4CE40-0YC0
System 5	Package comprising 1× powermanager Extended 5× PAC2200 transformer measurement Modbus TCP	7KN2715-5CE40-0YC0



powermanager – Measuring device diagram



powermanager – Overview of measuring devices

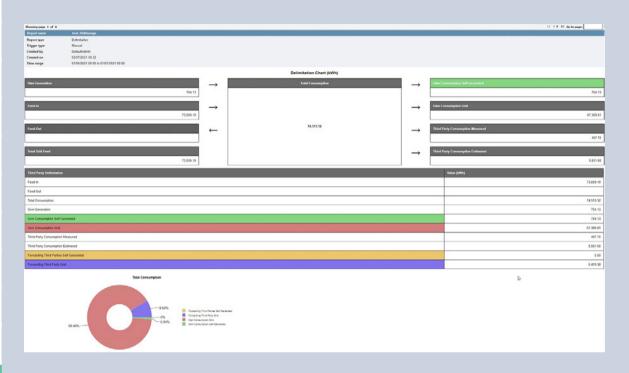


powermanager – Load duration report

SENTRON powermanager

PC-based power monitoring software







Third-party quantity report



Health Dashboard



7KN Powercenter 1000 Dashboard

7KN Powercenter

Edge/IoT-based data acquisition and visualization for low-voltage power distribution

7KN Powercenter 3000

Areas of use and applications

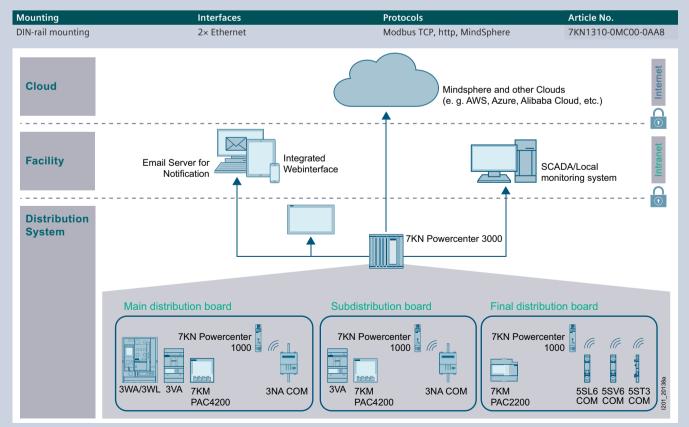
- Basis for certified energy management according to ISO 50001 to improve energy efficiency and optimize maintenance management
- Transparency and fault localization in single and distributed locations
- Future-proof foundation for expanding data analysis from on-site analysis to cloud-based analysis

Features

- · Simple and fast commissioning via
 - Reuse of the configuration data from SENTRON powerconfig or
 - An integrated network scan with automatic device recognition and dashboard selection in accordance with the device type
- · Data acquisition, storage and provision
 - All key data of lower-level devices and energy/demand values as well as breaker status and signals
 - The 15min energy values as a basis for energy reporting as part of ISO 50001 certification
 - Export in form of CSV file (once, periodically, send e.g. by email

- Visualization/data analysis
 - In the web interface of the 7KN Powercenter 3000 via the predefined device dashboards and the customer-specific dashboards
 - Analysis of the data in graphical form, e.g. lines, bars, diagrams, and also in tabular form
 - Can also be output as a report
- Interfaces for the digitalization of low-voltage
 - Integrated and easy-to-configure communication with SENTRON powermind (see separate section)
 - To other cloud applications, e.g. based on AWS, Azure, AliCloud. etc.
 - Via Modbus TCP for other applications, e.g. SENTRON powermanager
- General:
 - Energy and status data from infeed to the final circuit of up to 32 SENTRON protection, switching, measuring and monitoring devices
 - Compact design, 24 V DC supply
 - Web interface in 10 languages
 - Flexible IT security features for protection against unauthorized access

More information: www.siemens.com/powermonitoring



Areas of use and applications for 7KN Powercenter 3000

The following examples give an impression of the diverse functions of the 7KN Powercenter 3000. These are aimed at different customer groups, such as energy managers and maintenance personnel, but also electricians. All information is available via a web browser on a standard PC, but also on mobile devices, such as tablets and smartphones. The information is therefore also available remotely within the company network.

Predefined dashboards

These are automatically selected according to the configuration of the 7KN Powercenter 3000 and show the most important data of SENTRON protection, switching and measuring devices.



Data visualization based on the example of a measuring device

- Key data points such as active energy or active power are displayed in the form of a curve (time range can be altered by scrolling).
- Further instantaneous values or device information are available in tabular form.



Information on the status of protection and switching devices

- Representation of the device status, e.g. open, closed, tripped and relevant measured quantities, such as maximum phase current, total power ...
- Condition monitoring information is used to assess the state of health and predict the remaining service life

Creation of customer-specific dashboards

Users can create their own dashboards (in addition to the standard "Overview" dashboard) by using widgets from the library to compile their own views of the most important information.





Example of a customer-specific dashboard

Several examples of the UI elements

Easy-to-operate user interface

 $Further \ UI \ elements \ provide \ additional \ operating \ convenience \ and \ more \ in-depth \ views \ of \ the \ collected \ data.$

- The alarm widget serves as a convenient tool to obtain an overview of the active limit monitoring and any alarms that may be triggered.
 - In the archive graph widget, the 15min energy values (kWh) are displayed as a bar chart
 - The detailed display on "mouse over" shows the individual values in the bar chart with the corresponding date/time stamp
- · Dashboards and their contents, e.g. results of data analysis can be printed using the web browser print function

7KN Powercenter

Wireless data acquisition and visualization in the final circuit

7KN Powercenter 1000

The 7KN Powercenter 1000 data transceiver is designed to enable comprehensive data acquisition of communication and measuring-capable circuit protection devices. This increases transparency in the final circuit, through which optimization measures can be derived to increase system availability.

Up to 24 devices can communicate wirelessly with 7KN Powercenter 1000 via radio link. This means that no increased installation effort is required for communication. Selected measured values of the circuit protection devices are stored in the data transceiver for up to 30 days. These can be visualized to ensure extensive data availability.

The compact design of the 7KN Powercenter 1000, in a single modular width, results in an extremely small footprint in the distribution board so as to enable wireless, comprehensive data acquisition.

This is complemented by easy mounting on a 35 mm DIN rail and plug-in terminals for a 24 V DC power supply, which can be immediately looped through (daisy chain) to supply other devices.

The integrated Bluetooth interface enables simple on-site communication and commissioning via the SENTRON powerconfig mobile app. Connection to various configuration or power monitoring systems, such as SENTRON powerconfig, SENTRON powermanager or customized solutions, is ensured via the Modbus TCP interface. Furthermore, this interface also enables a connection via e.g. 7KN Powercenter 3000 or via LOGO! to cloud applications.

Mounting	Power supply	Devices that can be connected	Interfaces	Article No.
DIN-rail mounting	24 V DC SELV	24 circuit protection devices via	2× Ethernet	7KN1110-0MC00
		radio link		

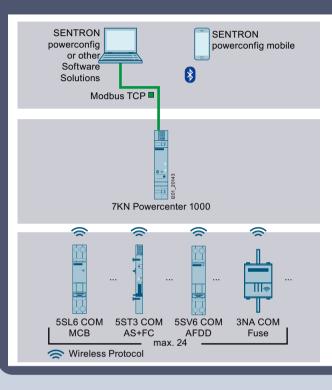
Note:

Please note the country-specific radio licenses of the products in SIOS: www.siemens.com/lowvoltage/certificates (109801197)

Bundles new	Scope of supply	Article No.
Bundle 1		
	2× MCB 5SL6 COM B16 1× RCBO 5SV1 1× AS/FC 5ST3 COM 1× 7KN Powercenter 1000	7KN1110-0XC01
Bundle 2		
	2× MCB 5SL6 COM C16 1× RCBO 5SV1 1× AS/FC 5ST3 COM 1× 7KN Powercenter 1000	7KN1110-0XC02
Bundle 3		
	3× 3NA COM LV HRC fuse links 1× 7KN Powercenter 1000 1× 3NP1 fuse switch disconnectors	7KN1110-0XC03
Bundle 4		
	9× 3NA COM LV HRC fuse links 1× 7KN Powercenter 1000 1× 7KN Powercenter 3000	7KN1110-0XC04
Bundle 5		
a w	9× 3NA COM LV HRC fuse links 1× 7KN Powercenter 1000	7KN1110-0XC05



7KN Powercenter 1000 data transceiver



- Acquisition and storage of data and measured values from up to 24 communication-capable circuit protection devices via radio link
- Parameterization, visualization and further processing of the data in higher-level applications via Bluetooth and Modbus TCP



You will find further information under: www.siemens.com/lowvoltage/manuals

Installation Manual – SENTRON circuit protection devices with communication and measuring function (109791805)







SENTRON powermind

Cloud-based solution for data visualization and analysis in power distribution systems



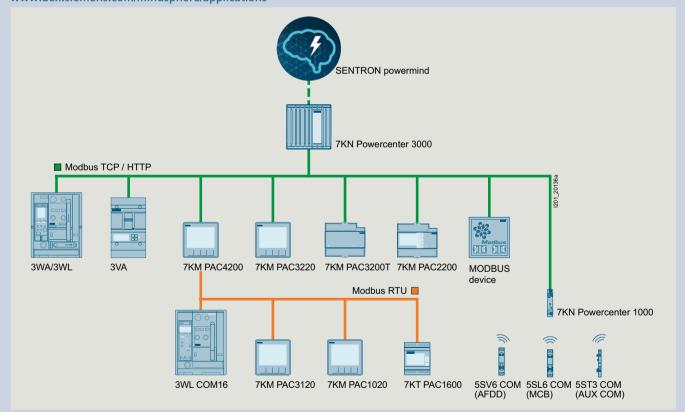
SENTRON powermind is aimed equally at energy managers, facility managers and/or operators. For energy managers, predefined, automated representations and analyses of energy data are available, such as:

- Analysis of data in graphical form, e.g. lines, bars, heatmap, Sankey diagram (Can also be output as a report)
- Comparison of energy consumption on weekdays versus weekends with percentage day-by-day representation of the distribution of energy consumption to identify unnecessary energy consumption
- Comparison of energy consumption and power import during a selected period as compared with a reference period to assess the effectiveness of energy efficiency measures
- Day-by-day representation of the 15 min power demand, incl. min and max values to assess power peaks

SENTRON powermind offers operators and facility managers the following information and analyses:

- Status of the switching and protection devices, such as 3VA, 3WA and 3WL
- Display of the maximum current value of an individual phase in relation to I_n
- Condition monitoring information about the condition of the contact system of each circuit breaker and also as an overview of all circuit breakers
- The following devices are supported: PAC1020, PAC2200/PAC2200CLP, PAC3100/PAC3120, PAC3200/PAC3200T/PAC3220, PAC4200 measuring devices, 3VA, 3WA and 3WL circuit breakers

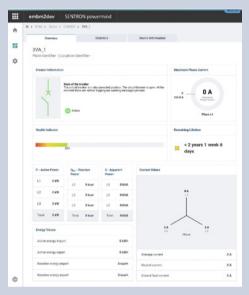
You will find further information on the MindSphere Store at www.dex.siemens.com/mindsphere/applications



A large number of devices transmit data via SENTRON Powercenter 3000 or SENTRON powermanager to SENTRON powermind

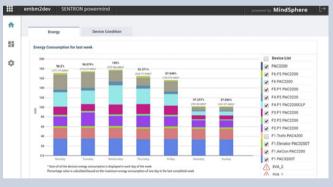
SENTRON powermind processes data from SENTRON Powercenter 3000. No complex configuration or parameterization is required, as the necessary information is exchanged using files. This also prevents possible incorrect entries or write errors. An error-free connection can thus be easily established in just a few minutes.

The examples show some of the functions of SENTRON powermind, which are aimed at different customer groups, such as energy managers and maintenance personnel, but also electricians. All information is available via a web browser on a standard PC, but also on mobile devices, such as tablets and smartphones. The information is therefore available both on-site (locally) and off-site (remotely).



Creating transparency

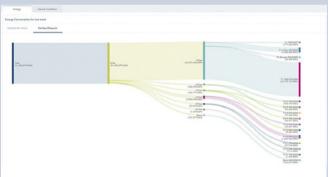
- Representation of the device status, e.g. open, closed, tripped and relevant measured quantities, such as maximum phase current, total power ...
- Information about the state of health of the device to take action proactively





Overview of the circuit breaker status

- Overview of the state of the health of all circuit breakers in the switchboard
- Assignment to a maintenance cycle (< 1 year; between 1 and 3 years; > 3 years)
- Display of circuit breakers in list form as well as link to the respective circuit breaker dashboard



Creating transparency

- Representation of the power flow/power import in various parts of the power distribution system
- Comparison of the weekly energy consumption (percentage distribution of weekdays in comparison to weekend) to identify unusual energy consumption patterns and to check energy-saving measures in the form of a bar chart or Sankey diagram





Energy management

- · Comparison of the energy consumption of two periods, for example, to assess the effectiveness of energy saving measures
- Representation of the active power as mean and min/max values in a line diagram or heatmap

10

SIMATIC Energy Suite

For integrated energy management

Highlights

- Simple and intuitive configuration instead of programming
- Automatic generation of the PLC energy program
- · Convenient integration of measuring components from the Siemens portfolio and from other manufacturers
- Integrated into the TIA Portal and the automation system
- Archiving in WinCC Professional or PLC
- Seamless interfacing to Energy Manager PRO and Energy
- Analytics

Additional information on the SIMATIC Energy Suite:

www.siemens.com/energysuite

SIMATIC Modbus/TCP SENTRON PAC

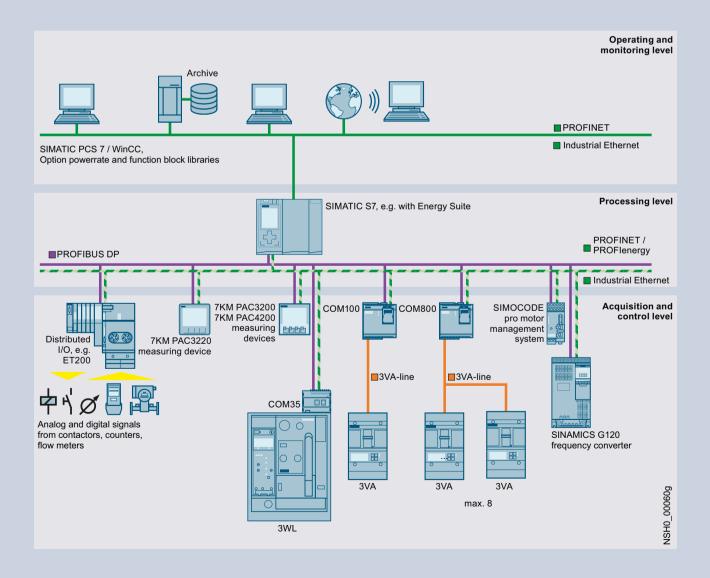
For 7KM PAC3200/4200 measuring devices

Use and version	Valid for	Туре	Article No.
Communication via the integrated	1 CPU and up to 20 SENTRON PACs	Modbus/TCP 20 SENTRON PAC	6AV6676-6MA30-0AX0
PN interface for reading values out	1 CPU and up to 100 SENTRON PACs	Modbus/TCP 100 SENTRON PAC	6AV6676-6MA30-1AX0
of PAC3200 and PAC4200 devices, single license	1 CPU and up to 512 SENTRON PACs	Modbus/TCP 512 SENTRON PAC	6AV6676-6MA30-2AX0

PAC/3WL/3VA SIMATIC PCS 7 library

For 7KM PAC3200/3220/4200 measuring devices and 3WL/3VA/3VL circuit breakers

Use	Version	Type of delivery	Article No.
PAC/3WL/3VA SIMATIC PCS 7 library			
AS blocks and faceplates for integrating the 3WL/3VA/3VL circuit breakers into SIMATIC PCS 7, V8.x, V9.0 SP2 or V9.1 For each SIMATIC PCS 7 Operator Station of the single station/server version, a license containing the following is required: Engineering license for one SIMATIC PCS 7 Operator Station of the single station/server version Runtime license for one automation system (1 required per automation system, further AS runtime licenses can be ordered separately)	Engineering and runtime software, software class A, 2-language (English, German), single license for one installation	Software and electronic documentation as a software download, engineering and runtime license as Certificate of License	3ZS2787-1CC30-0YG0
AS runtime license for PAC/3WL/3VA library for SIMATION	C PCS 7		
License for one automation system in each case	Runtime software, software class A, 2-language (English, German), single license for one installation	Runtime license as Certificate of License without software and documentation	3ZS2787-1CC30-6YH0



7KM PAC measuring devices

Basic units







Connec- tions	Power supply	Display	Interface	MID	PTB- A50.7	7KM PAC1020	7KM PAC2200/PAC2200 CLP	7KM PAC3200T
Transform	ner measurement							
Screw	Self-powered	With	M-Bus	With	Without	-	7KM2200-2EA30-1GA1	-
terminals				Without	Without	-	7KM2200-2EA30-1CA1	-
			Modbus RTU	With	Without	-	7KM2200-2EA30-1HA1	-
				Without	Without	-	7KM2200-2EA30-1DA1	-
			Modbus TCP	With	With	-	7KM2200-2EA00-1JB1	-
					Without	-	7KM2200-2EA30-1JA1	-
				Without	Without	-	7KM2200-2EA30-1EA1	-
	AC/DC wide-range	With	Modbus RTU	Without	Without	7KM1020-0BA01-1DA0	-	-
	power supply unit		Modbus TCP	Without	Without	-	-	-
		Without	Modbus TCP	Without	Without	-	-	7KM3200-0CA01-1AA0
	DC power supply	With	Modbus TCP	Without	Without	-	-	-
	unit with extra-low voltage		Modbus RTU	Without	Without	-	-	-
Ring cable lug connec- tion	AC/DC wide-range power supply unit	With	Modbus TCP	Without	Without	-	-	-
Direct me	asurement							
Screw	Self-powered	With	M-Bus	With	Without	-	7KM2200-2EA40-1GA1	-
terminals				Without	Without	-	7KM2200-2EA40-1CA1	-
			Modbus RTU	With	Without	-	7KM2200-2EA40-1HA1	-
				Without	Without	-	7KM2200-2EA40-1DA1	-
			Modbus TCP	With	With	-	7KM2200-2EA40-1JB1	
					Without	-	7KM2200-2EA40-1JA1	-
				Without	Without	-	7KM2200-2EA40-1EA1	-

Further technical sp	7KM1020	7KM2200	7KM3200	7KM3120-0	7KM3120-1	
Basic data						
Installation		Front mounting	DIN rail		Front mounting	
Mounting width		-	6 MW		_	
Control panel instrument		96 × 96 mm	-		96 × 96 mm	
External auxiliary voltage	50/60 Hz AC	100 250 V	-	90 276 V	100 250 V ±10%	-
	DC	110 250 V ±10%	-	110 275 V	110 250 V ±10%	24 60 V ±20%
Measuring inputs						
Transformer connection	Secondary input current I _e	x/1 A or x/5 A	x/1 A or x/5 A		x/1 A or x/5 A	
Direct connection	Input voltage $U_{\rm e}$ 3 AC 50/60 Hz	400/230 V			690/400 V	
	Rated current I _n	-	65 A	-		











7KM PAC3120	7KM PAC3220	7KM PAC4200	7KM PAC5200
-	_	_	_
_	_	_	_
_	_	-	-
-	-	-	_
-	_	-	_
-	_	-	_
-	-	_	-
7KM3120-0BA01-1DA0	-	-	-
-	7KM3220-0BA01-1DA0	7KM4212-0BA00-3AA0	7KM5412-6BA00-1EA2
-	_	_	7KM5412-6CA00-1EA8
-	7KM3220-1BA01-1EA0	7KM4211-1BA00-3AA0	_
7KM3120-1BA01-1EA0	-	-	-
-	-	7KM4212-0BA00-2AA0	-
-	-	-	-
-	-	-	-
-	_	-	_
-	_	-	-
-	-	-	-
-	_	-	-

7KM3220-0	7KM3220-1	7KM4212	7KM4211	7KM5412
Front mounting				Front mounting/DIN rail
-				
96 × 96 mm				
100 250 V ±10%	-	95 240 V ±10%	-	110 230 V ±10%
100 250 V ±10%	24 60 V ±20%	110 340 V ±10%	22 65 V ±10%	24 250 V ±10%
x/1 A or x/5 A				
690/400 V			500/289 V	690/400 V
_				

7KM PAC measuring devices

Accessories

7KM PAC1020 7KM PAC3100 7KM PAC3120 7KM PAC3200 7KM PAC3220 7KM PAC4200

7KM PAC TMP2 DIN-rail adapter



- · Two-tier adapter for mounting a measuring device on a DIN rail
- Front display
- For manual intervention

7KM9900-0XA00-0AA0

7KM PAC TMP mounting plate



- Adapter for mounting a measuring device on DIN rail
- Display faces backwards towards DIN rail
- Readout and evaluation of measurements solely via mains operation

7KM9900-0YA00-0AA0



Compact holder

- Device holder for 7KM PAC1020/3100/3120/3200/3220/4200
- 10 holders for 5 PAC devices
- For seamless side-by-side mounting of the devices (without spaces)

7KM9900-0GA00-0AA0

7KM PAC3100 7KM PAC3200 7KM PAC4200

Spare parts for 7KM PAC



- Spare parts comprising:
 - Device holders for panel mounting (2X)
 - Note: can also be used for 7KM PAC3120/3220
 - Screw terminal for connection of voltage inputs
 - Screw terminal for connection of current inputs
 - Terminal block inputs/outputs for 7KM PAC3100/4200
 - Terminal block inputs/outputs for 7KM PAC3200
 - RS485 terminal blocks for 7KM PAC3100

7KM9900-0SA00-0AA0

7KM PAC2200 7KM PAC2200 CLP 7KM PAC2200 MID

7KM PAC3200T

SENTRON PROFINET Proxy SPP2000 nev



- Proxy for transition from Modbus TCP-capable measuring devices to PROFINET IO. Connection of up to 8 devices from the PAC2200, PAC2200 CLP, PAC2200 MID and PAC3200T product ranges
- PROFINET Conformance Class C
- Two switched ports
- Integration in TIA by means of GSDML file

7KM9300-0PP20-0AA0

Expansion and communication modules

		7KM PAC3220 7KM PAC4200	COM100/800 (3VA)
7KM Switched Ethernet PROFINET communication module			
Latest PROFINET switching properties S2 system redundancy for operation in H s CiR Configuration in Run Firmware update via the modules for PACs		7///0200.0)AE02-0AA0
8.93333333		7 KIVI 9 3 0 0 - C	JALUZ-UAAU
7KM PROFIBUS DP communication module			
		7KM9300-C)AB01-0AA0
7KM RS485 communication module			
		7KM9300-0 <i>A</i>	MM00-0AA0 ¹⁾
7KM PAC 4DI/2DO expansion module			
1000manus			
."		7KM9200-0AB00-0AA0	-
7KM PAC I(N), I(Diff), analog expansion module			
To add the following functions to the mea N conductor measurement	non-electrical quantities such as temperature,		
		7KM9200-0AD00-0AA0	-

¹⁾ Suitable for 7KM PAC4200 (especially for the Modbus TCP/RTU Gateway)

Residual-current transformers for 7KM PAC I(N), I(Diff), analog expansion module, from page 11/1 onwards

7KT PAC measuring devices

PAC1600 basic unit



Connections	Version	Power supply	Display	Interface	MID	7KT PAC1600
Transformer mea	surement					
Screw terminals	3-phase	Self-powered	With	Modbus RTU	Without	7KT1661
					With	7KT1662
				M-Bus	Without	7KT1663
					With	7KT1664
			S0 interface	Without	7KT1672	
					With	7KT1673
	3-phase, universal Auxiliary power: With	With	-	Without	7KT1681	
		100 240 V AC, 110 250 V DC 50/60Hz		Modbus RTU	Without	7KT1682
Direct measurem	ent					
Screw terminals	M-	Self-powered	elf-powered With	Modbus RTU	Without	7KT1651
					With	7KT1652
			M-Bus	Without	7KT1653	
					With	7KT1654
		S0 interface	Without	7KT1655		
					With	7KT1656
	3-phase	Self-powered	With	Modbus RTU	Without	7KT1665
					With	7KT1666
				M-Bus	Without	7KT1667
					With	7KT1668
			S0 interface	Without	7KT1670	
					With	7KT1671

PAC1200 multichannel current measuring system



Connections	Version	Power supply	Display	Interface	MID	7KT PAC1200
Direct measurement						
Screw terminals	3-phase	Self-powered	Without	Modbus TCP	Without	7KT1260

PAC1200		7KT PAC1200
Data manager with 7KT		
	Number of connections	Article No.
	3	7KT1233
a dana	6	7KT1236
· · · · · · · · · · · · · · · · · · ·	9	7KT1238
- Andreas	12	7KT1242
Data manager with 7KT	1260, sensors	
	Current I _e	Article No.
	40 A	7KT1254
3	63 A	7KT1255

PAC1200 Bundles





Data manager	Sensor bars	Sensors	18 bundle	24 bundle
1× data manager 7KT1260	2× 9-sensor bar 7KT1238	18× sensors 40 A 7KT1254	7KT1222	-
	2× 12-sensor bar 7KT1242	24× sensors 40 A 7KT1254	-	7KT1223

SEM3 multichannel current measuring system

Data manager



Connections	Version	Power supply	Display	Interface	MID	
Transformer meas	urement					
Screw terminals	3-phase	Self-powered	Without	Modbus TCP RS485 Modbus RTU	Without	US2:SEM3CONTROLLER

Further technical specifications	SEM3
Basic data	
Installation	Screw mounting
Measuring inputs	
Max. input voltage 50/60 Hz AC	480 V/277 V
Standard current transformers	50 1200 A/0.1 A
Folding transformer	50 2000 A/0.1 A

Accessories

Metering modules



- For recording measured values Accuracy of 0.2% or 1% for the entire measurement including current transformer
- Simple setting of phase configuration by means of slide switch
- Connection of a current transformer for measuring a phase
- Metering module is plugged into meter rack

Measuring accuracy	Article No.
0.2%	US2:SEM3PHAMETER
1%	US2:SEM3PLAMETER



	Version	Article No.
	For 3 metering modules	US2:SEM3RACK3
	For 9 metering modules	US2:SEM3RACK9
	For 15 metering modules	US2:SEM3RACK15
	For 21 metering modules	US2:SEM3RACK21

Connecting cables



• 600 V insulated special cable for connecting meter racks to the data manager

Length	Article No.
0.3 m	US2:SEM3CAB12INCH
0.6 m	US2:SEM3CAB24INCH
0.9 m	US2:SEM3CAB36INCH



- Standard power cable brown and yellow, 1.82 m long
- Can be extended up to 100 m while still maintaining accuracy
- Transformer configuration is carried out in the data manager

	Output signal	Transformer transmission ratio	Article No.
	100 mA	50:0.1	US2:SEM3SCCT50
		125 : 0.1	US2:SEM3SCCT125
		250:0.1	US2:SEM3SCCT250
		400:0.1	US2:SEM3SCCT400
		600:0.1	US2:SEM3SCCT600
		800:0.1	US2:SEM3SCCT800
		1200 : 0.1	US2:SEM3SCCT1200

Folding transformers



- Standard power cable brown and yellow, 1.82 m long
- · Can be extended up to 100 m while still maintaining accuracy
- Transformer configuration is carried out in the data manager

	Output signal	Transformer transmission ratio	Article No.
	100 mA	50:0.1	7KT1280-5MA00
		125:0.1	7KT1280-5MA01
		250:0.1	7KT1280-5MA02
		400:0.1	7KT1280-5MA03
		600:0.1	7KT1280-5MA04
		800:0.1	7KT1280-5MA05
		1200:0.1	7KT1280-5MA06
		1600:0.1	7KT1280-5MA07
		2000 • 0 1	7KT1280-5MA08

DIN-rail adapters



- 5 adapters for snapping onto DIN rail
- 1 adapter each for data manager and for meter racks with 3, 9, 15 and 21 metering modules
 Adapters are screwed onto the data manager or the meter racks

US2:SEM3DINKIT

SEM3T multichannel temperature measuring system

Data manager for thermal monitoring in electrical systems



Connections	Version	Power supply	Display	Interface	
Plug-in connectors	Temperature	24 V DC	Without	Modbus TCP	7KT1281-0AA00
	measurement			Modbus TCP/Wi-Fi	7KT1281-0AA10

Further technical specifications Basic data Installation Measuring inputs Temperature sensors SEM3T DIN-rail mounting O to 130°C

Accessories

Metering module



- For recording measured values No configuration necessary for modules
- Connection of a temperature sensor Metering module is plugged into meter rack

Article No.
7KT1281-1AA00



Version	Article No.
For 3 metering modules	US2:SEM3RACK3
For 9 metering modules	US2:SEM3RACK9
For 15 metering modules	US2:SEM3RACK15
For 21 metering modules	US2:SEM3RACK21

Connecting cables



600 V insulated special cable for connecting meter racks to the data manager	
Length	Article No.
0.3 m	US2:SEM3CAB12INCH
0.6 m	US2:SEM3CAB24INCH
0.0 m	LICA, CEMACA DAGINICH

Temperature sensors

- Standard connection cable, brown and yellow, 3 m long
 Can be extended up to 15 m while still maintaining accuracy
- Configuration is carried out in the data manager



la.	Version	Size	Article No.
	Sensors with ring cable lugs	Sensor 1/4"	7KT1281-2SA00
		Sensor 5/16"	7KT1281-2SA01
		Sensor 3/8"	7KT1281-2SA02
		Sensor 1/2"	7KT1281-2SA03
ε.	Cylindrical sensor		7KT1281-2CA00



Time and pulse counters

Mechanical counting mechanisms







Display Resetting Rated frequency voltage U _c Rated control supply voltage U _c 48 × 48 mm 72 × 72 mm − Time counter 00000.00 h Without − 10 80 ∨ DC 7KT5500 − − 10 50 ∨ DC − 7KT5600 − 7KT5801 12 24 ∨ DC − − 7KT5802 115 ∨ AC 7KT5501 7KT5601 7KT5803 230 ∨ AC 7KT5502 7KT5602 7KT5804 60 Hz 115 ∨ AC 7KT5503 7KT5603 7KT5807 Pulse counter 0000000 Without − 12 24 ∨ DC − − 7KT5811 7KT5811 7KT5812 − 7KT5812 − 7KT5812							
00000.00 h Without - 10 80 V DC 7KT5500 - - 10 50 V DC - 7KT5600 - 12 24 V DC - - 7KT5801 50 Hz 24 V AC 7KT5505 - 7KT5802 115 V AC 7KT5501 7KT5601 7KT5803 7KT5804 7KT5602 7KT5804 60 Hz 115 V AC 7KT5503 7KT5603 7KT5807 Pulse counter 0000000 Without - 12 24 V DC - - 7KT5811 50/60 Hz 24 V AC - - 7KT5812	Display	Resetting	Rated frequency		48 × 48 mm	72 × 72 mm	
10 50 V DC	Time counter						
12 24 V DC	00000.00 h	Without	-	10 80 V DC	7KT5500	-	-
Foundament Fou				10 50 V DC	_	7KT5600	-
115 V AC 7KT5501 7KT5601 7KT5803 230 V AC 7KT5502 7KT5602 7KT5804 7KT5804 7KT5805 7KT5804 7KT5805 7KT5804 7KT5805 7KT5806 7KT5806 7KT5806 7KT5806 7KT5806 7KT5807 7KT5604 7KT5807 7KT5807 7KT5807 7KT5807 7KT5807 7KT5807 7KT5807 7KT5815 7KT5811 7KT5812 7K				12 24 V DC	-	-	7KT5801
230 V AC 7KT5502 7KT5602 7KT5804 60 Hz 115 V AC 7KT5503 7KT5603 7KT5806 230 V AC 7KT5503 7KT5603 7KT5806 7KT5806 7KT5807 7KT5604 7KT5807 7KT5807 7KT5604 7KT5807 7KT5807 7KT5807 7KT5807 7KT5811 7KT5812 7KT5812			50 Hz	24 V AC	7KT5505	-	7KT5802
60 Hz 115 V AC 7KT5503 7KT5603 7KT5806 230 V AC 7KT5504 7KT5604 7KT5807 Pulse counter 0000000 Without - 12 24 V DC - - 7KT5811 50/60 Hz 24 V AC - - 7KT5812				115 V AC	7KT5501	7KT5601	7KT5803
Pulse counter				230 V AC	7KT5502	7KT5602	7KT5804
Pulse counter 0000000 Without - 12 24 V DC - - 7KT5811 50/60 Hz 24 V AC - - 7KT5812			60 Hz	115 V AC	7KT5503	7KT5603	7KT5806
0000000 Without - 12 24 V DC 7KT5811 50/60 Hz 24 V AC 7KT5812				230 V AC	7KT5504	7KT5604	7KT5807
50/60 Hz 24 V AC – – 7KT5812	Pulse counter						
	0000000	Without	-	12 24 V DC	_	-	7KT5811
			50/60 Hz	24 V AC	_	-	7KT5812
230 V AC – 7KT5814				230 V AC	-	-	7KT5801 7KT5802 7KT5803 7KT5804 7KT5806 7KT5807

Further technical specifications	7KT55	7KT56	7KT58
Basic data			
Installation	Front mounting		DIN-rail mounting
Mounting width	-		2 MW
Front frame	48 × 48 mm	72 × 72 mm	-
Display	Drum-type register		
Version	-	With narrow frame according to DIN 43700	-

Accessories		7KT55	7KT56	7KT58	
Cover					
	Size		Article No.	Article No.	Article No.
	55 × 55 mm		7KT9020	-	-
Sealing ring for cove	Sealing ring for cover				
	Degree of protection	Scope of supply	Article No.	Article No.	Article No.
	IP43 (in control panels with smooth surfaces)	1 set = 5 units	7KT9000	-	-
Terminal cover					
	Degree of protection		Article No.	Article No.	Article No.
	IP20 (with connected conductors)		-	7KT9021	-

Electronic counting mechanisms



Display	Resetting	Rated frequency	Rated control supply voltage $U_{\rm c}$	
Time counter				
000000.0 h	Without	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5821
	Electrical	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5822
	Electrical and mechanical	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5823
Pulse counter				
0000000	Electrical and mechanical	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5833

Further technical specifications	7KT58
Basic data	
Installation	DIN-rail mounting
Mounting width	2 MW
Display	LCD display

Current transformers

For measurement purposes

				4NC '		/KI	2INJ ''	
				1-phase		3-phase	1-phase	
						The second	SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS SEMENS	SEMENS SEMENS SEMENTS
Size	Insulation level	Rated primary	Rated power	I _{sr} = 5 A	I _{sr} = 1 A	I _{sr} = 5 A	I _{sr} = 5 A	I _{sr} = 1 A
	U _m	current I _{pr}	P _n					
Accurac	y class 0.2s							
1	720 V	150 A	1 VA	4NC5121-2FA21	-	-	-	-
		200 A	2.5 VA	4NC5122-2FC21	-	-	-	-
		250 A	2.5 VA	4NC5123-2FC21	-	-	-	-
		300 A	5 VA	4NC5124-2FE21	-	-	-	-
		400 A	5 VA	4NC5125-2FE21	-	-	-	-
		500 A	5 VA	4NC5126-2FE21	-	-	-	-
5	720 V	600 A	5 VA	4NC5227-2FE21	-	-	-	-
		700 A	5 VA	4NC5228-2FE21	-	-	-	-
		800 A	5 VA	4NC5231-2FE21	-	-	-	-
		1000 A	5 VA	4NC5232-2FE21	-	-	-	-
Accurac	y class 0.5							
1	720 V	100 A	1 VA	4NC5117-2DA21	4NC5117-0DA21	-	-	-
		150 A	2.5 VA	4NC5121-2DC21	4NC5121-0DC21	-	-	-
		200 A	5 VA	4NC5122-2DE21	4NC5122-0DE21	-	-	-
		250 A	5 VA	4NC5123-2DE21	4NC5123-0DE21	-	_	-
2	720 V	200 A	5 VA	4NC5222-2DE21	4NC5222-0DE21	-	-	_
		250 A	5 VA	4NC5223-2DE21	4NC5223-0DE21	-	-	-
		300 A	5 VA	4NC5224-2DE21	4NC5224-0DE21	-	-	-
		400 A	5 VA	4NC5225-2DE21	4NC5225-0DE21	-	-	_
3	720 V	400 A	5 VA	4NC5325-2DE21	4NC5325-0DE21	-	-	-
		500 A	5 VA	4NC5326-2DE21	4NC5326-0DE21	-	_	_
		600 A	5 VA	4NC5327-2DE21	4NC5327-0DE21	-	_	_
		750 A	5 VA	4NC5330-2DE21	4NC5330-0DE21	-	_	_
		800 A	5 VA	4NC5331-2DE21	_	-	_	_
4	720 V	800 A	10 VA	4NC5431-2DH21	4NC5431-0DH21	_	_	-
		1000 A	10 VA	4NC5432-2DH21	4NC5432-0DH21	-	-	-
		1200 A	10 VA	4NC5433-2DH21	4NC5433-0DH21	-	-	_
		1500 A	10 VA	4NC5435-2DH21	4NC5435-0DH21	_	-	_
		1600 A	15 VA	4NC5436-2DK21	-	-	-	-
		2000 A	20 VA	4NC5438-2DL21	-	-	_	_
		2500 A	25 VA	4NC5440-2DM21	-	-	-	_
		3000 A	30 VA		_	_	_	_
Accurac	y class 0.5 calibrate	ed						
-	720 V	100 A	1.5 VA	-	-	-	3NJ6920-3BD23	3NJ6920-3BD13

3NJ6920-3BE23 3NJ6920-3BE13

3NJ6940-3BH23 3NJ6940-3BH13

3NJ6940-3BJ23 3NJ6940-3BJ13

3NJ6940-3BK23 3NJ6940-3BK13 3NJ6940-3BL23 3NJ6940-3BL23

150 A

300 A

400 A

500 A

2.5 VA

5 VA

5 VA

5 VA

¹⁾ Overcurrent limiting factor FS5



Size	Insulation level $U_{\rm m}$	Rated primary current I _{pr}	Rated power P _n	I _{sr} = 5 A	I _{sr} = 1 A	I _{sr} = 5 A	I _{sr} = 5 A	I _{sr} = 1 A
Accurac	y class 1.0							
1	720 V	50 A	1.2 VA	4NC5112-2CB21	4NC5112-0CB21	-	-	-
		60 A	1.2 VA	4NC5113-2CB21	4NC5113-0CB21	-	-	-
			1.25 VA	-	-	7KT1200	-	-
		75 A	2.5 VA	4NC5115-2CC21	4NC5115-0CC21	-	-	-
		100 A	2.5 VA	4NC5117-2CC21	4NC5117-0CC21	7KT1201	-	-
		150 A	2.5 VA	4NC5121-2CC21	4NC5121-0CC21	-	-	-
			3.75 VA	-	-	7KT1202	-	-
		200 A	5 VA	4NC5122-2CE21	4NC5122-0CE21	-	-	-
		250 A	5 VA	4NC5123-2CE21	4NC5123-0CE21	-	-	-
2	720 V	200 A	5 VA	4NC5222-2CE21	4NC5222-0CE21	-	-	-
		250 A	5 VA	4NC5223-2CE21	4NC5223-0CE21	-	-	-
		300 A	5 VA	4NC5224-2CE21	4NC5224-0CE21	-	-	-
_		400 A	5 VA	4NC5225-2CE21	4NC5225-0CE21	-	-	-
3	720 V	400 A	5 VA	4NC5325-2CE21	4NC5325-0CE21	-	-	-
	500 A	500 A	5 VA	4NC5326-2CE21	4NC5326-0CE21	-	-	-
		600 A	5 VA	4NC5327-2CE21	4NC5327-0CE21	-	-	-
		750 A	5 VA	4NC5330-2CE21	4NC5330-0CE21	-	-	-
4	720 V	800 A	10 VA	4NC5431-2CH21	4NC5431-0CH21	-	-	-
		1000 A	10 VA	4NC5432-2CH21	4NC5432-0CH21	-	-	-
		1250 A	10 VA	4NC5434-2CH21	4NC5434-0CH21	-	-	-
		1500 A	10 VA	4NC5435-2CH21	4NC5435-0CH21	-	-	-
		2000 A	12.5 VA	4NC5438-2CJ21	4NC5438-0CJ21	-	-	-
		2500 A	12.5 VA	4NC5440-2CJ21	4NC5440-0CJ21	-	-	-
		3000 A	30 VA	4NC5441-2CN21	-	-	-	-

Accessories



For transformer size	Article No.	Article No.	Article No.	Article No.	Article No.
1 and 5	4NC5923-5LT21	4NC5923-5LT21	-	-	-
2	4NC5925-5LT21	4NC5925-5LT21	-	-	-
3	4NC5930-5LT21	4NC5930-5LT21	-	-	-
4	4NC5940-5LT21	4NC5940-5LT21	-	-	-