



SETRON measuring devices

A comprehensive portfolio for all your energy management needs

- Precise, accurate and reliable measurement
- Scalability
- Cyber Security
- Various communication protocols

www.siemens.com/powermonitoring



SIEMENS

Energy Management System

(A) Hardware Solutions

Complete Range of Power Monitoring Devices for LV Networks



Description	Type	Unit LP* ₹
PAC 3120 with integrated RS 485 port for MODBUS RTU Class 0.5 accuracy, screw terminals AC/DC wide voltage power supply 100 ... 250 V ±10% 50/60Hz	7KM3120-0BA01-1DA0#	60370.-
PAC 3220 with integrated dual ethernet port for MODBUS TCP Class 0.5 accuracy, screw terminals With AC/DC wide voltage power supply 100 ... 250 V ±10% 50/60Hz	7KM3220-0BA01-1DA0#	82475.-
PAC 4200 with integrated ethernet port for MODBUS TCP Class 0.2s accuracy, screw terminals With AC/DC wide voltage power supply 95...240V AC ±10%, 50/60Hz, 110...340V DC ±10%	7KM4212-0BA00-3AA0#	POR

Expansion Modules (for PAC3220 and PAC4200)

Description	Type	Unit LP * ₹
PROFIBUS DP expansion module	7KM9300-0AB01-0AA0	29445.-
RS485 expansion module for MODBUS RTU	7KM9300-0AM00-0AA0	22740.-
Switched Ethernet PROFINET V3 expansion module	7KM9300-0AE02-0AA0	POR
Digital Expansion Module 4DI/2DO [§]	7KM9200-0AB00-0AA0	POR
Analog Expansion Module	7KM9200-0AD00-0AA0	POR

For extra low DC voltage (22 ... 65 V DC ± 10 %) option, please contact your nearest Siemens Sales Office.
§ Maximum 2 nos.can be connected if communication expansion module is not connected.
For exact configuration, please contact your nearest Siemens Sales Office.

(B) Software Solution

Description	Unit LP* ₹
SENTRON powermanager: Complete Energy Management Software	POR

POR: Price On Request
Std. Pkg. = 1 unit
* LP - List Price

PAC 3120: Cost Effective Solution for digital measurement

- Display of instantaneous, maximum and minimum values
- Measurement of Active & Reactive Power (Import / Export / Net)
- CT polarity reversal correction from the device

PAC 3220: Specialist solution for precise energy data capture

- Dual Metering function
- Dual ethernet interface for MODBUS TCP communication
- Optional communication over PROFIBUS DP and PROFINET

PAC 4200: Professional solution for communication and monitoring

- Integrated gateway functionality for MODBUS RTU devices
- Reliable event recording with battery backup
- Sliding window for maximum demand

PAC EXPANSION Modules



7KM PAC 3220



7KM PAC 4200



MODBUS RTU



PROFINET



PROFIBUS DP



I(N), I(Diff), Analog



PAC 4DI/2DO





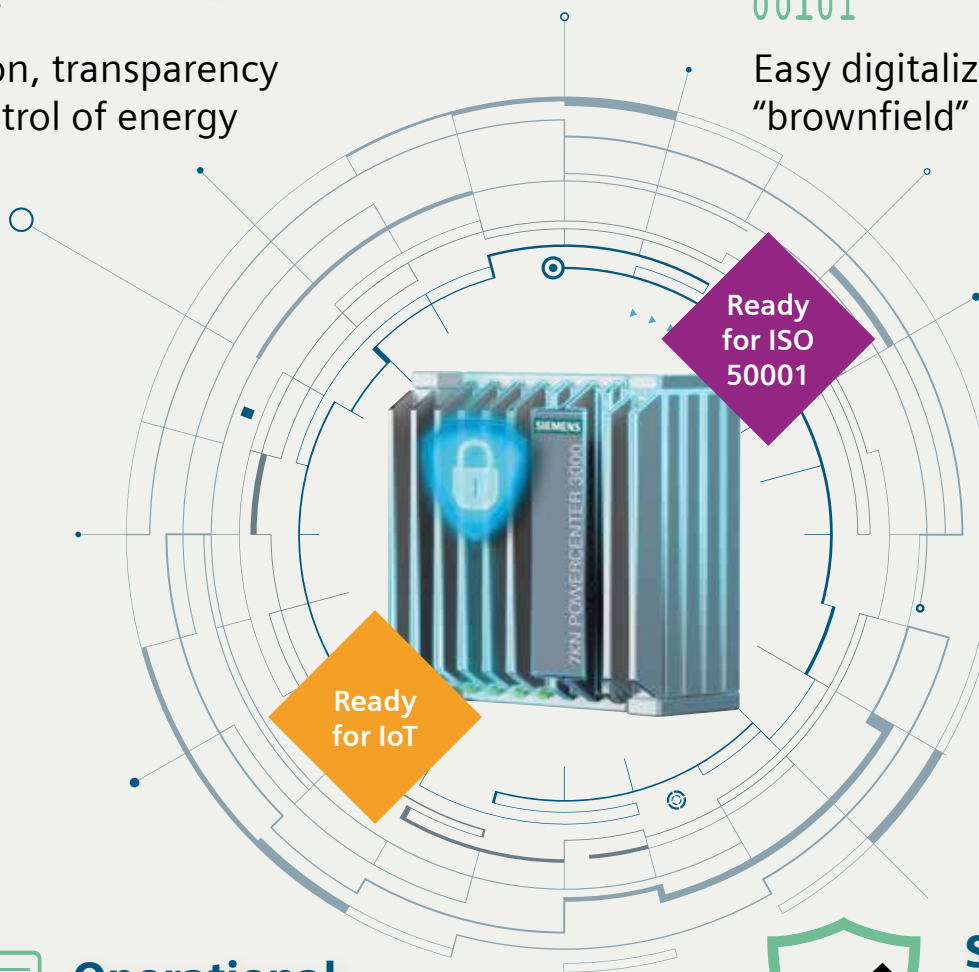
Energy management

Detection, transparency and control of energy flows

101 0
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00101

Adaptability to Industry 4.0

Easy digitalization of "brownfield" projects



Ready for ISO 50001

Ready for IoT



Operational flexibility

Choice of visualization via Web Interface, on premise or connect to Cloud



Safety through reliability

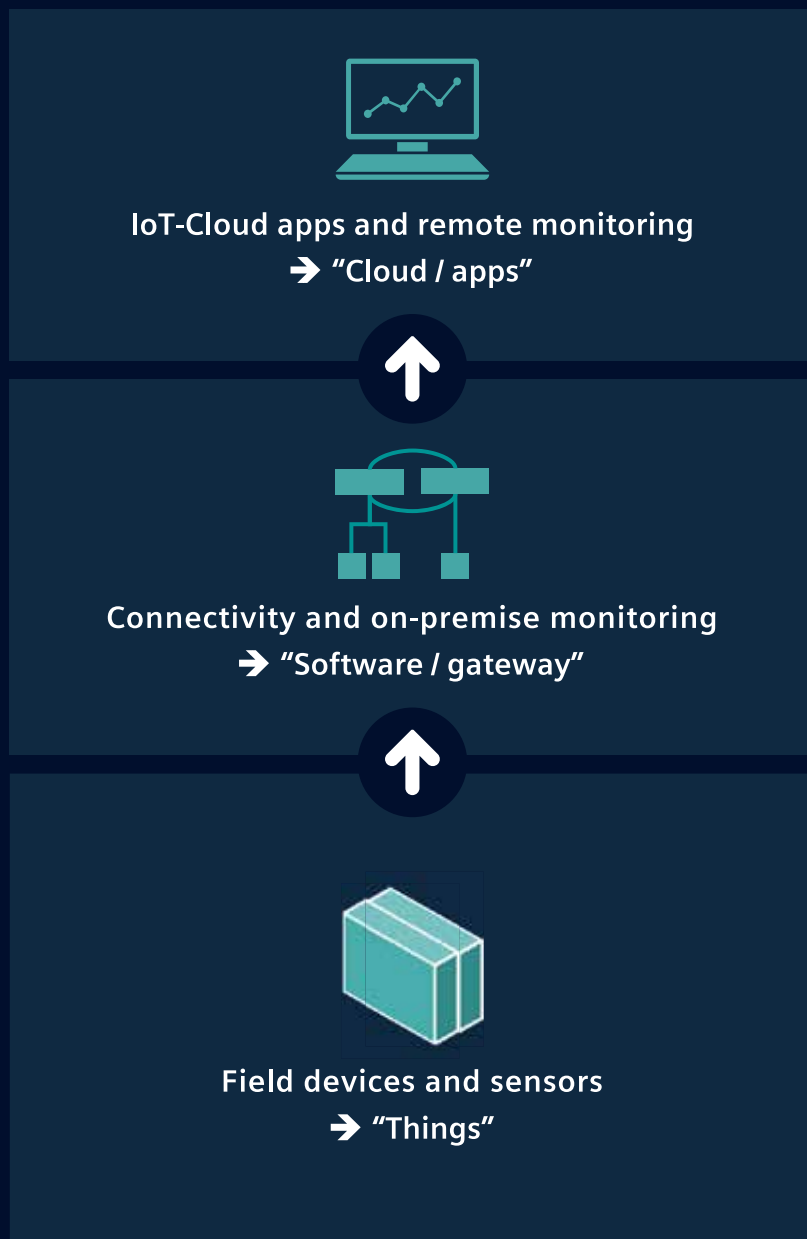
Identifying potential outages at an early stage enable preventing them

SENTRON Powercenter 3000

Gateway to the digitalization of low-voltage power distribution

Siemens/SENTRON-Digitalization

SIEMENS



SENTRON
Powermind



7KN Powercenter 3000



SENTRON Digitalization Solution

Intelligent power distribution management

Secure. Scalable. Customizable.

Turn your LV Panels into IoT enabled digital switchboards with benefits like:



On-site or cloud-based data
visualization and analysis



Fulfill regulatory requirements
(e.g., ISO 50001)



Energy transparency and efficiency
without compromising security



Reduce unplanned downtime with
condition monitoring

Insights Hub



Watts



SENTRON
powermanager



SENTRON
powerconfig



Adaptive
web interface



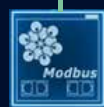
7KM PAC4200



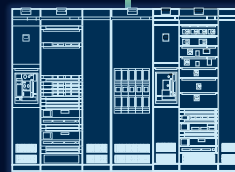
7KM PAC3200T



7KM PAC2200



MODBUS device



Siepan / Sivacon



3WT^{Plus}



7KM PAC3120



MODBUS device



7KT PAC1600

Modbus TCP / HTTP

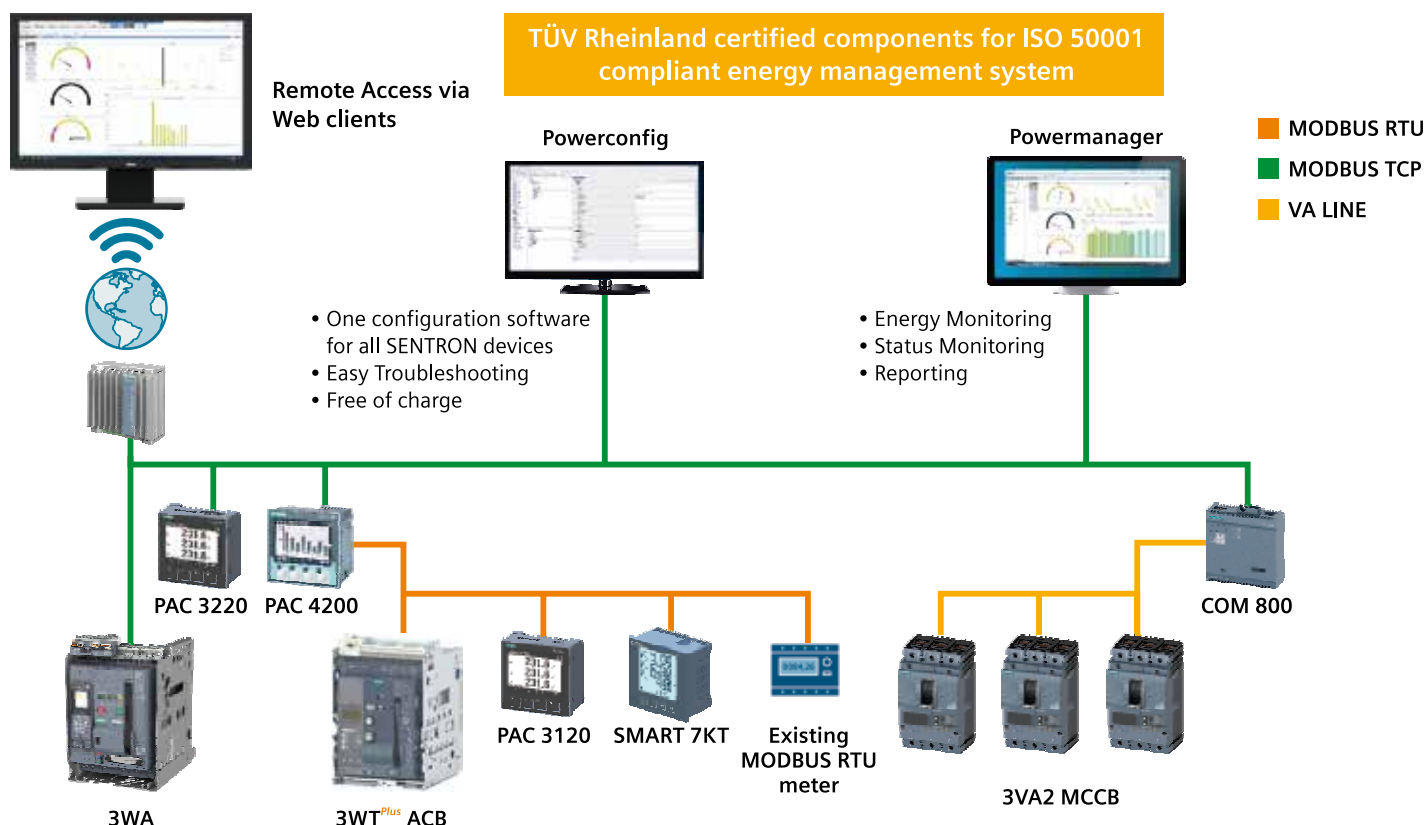
Modbus RTU

Scan to
explore



SIEMENS

Single Platform For Intelligent Power Distribution Management



Power Quality Measurement

SENTRON 7KM PAC 5200

- Measured value capture in accordance with power quality standard IEC 61000-4-30
- Recording of power quality anomalies like sag, swell and interruption
- Integrated web server to set parameters and display measured values on HTML pages

For more details, please contact your nearest Siemens Sales Office.

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DIN Rail Mounted Meters for energy monitoring in Infra and Building Applications

Description	Type	Unit LP* ₹
PAC 2200 DIN rail meter with integrated RS 485 port for MODBUS RTU 65A direct connection Class 1 accuracy	7KM2200-2EA40-1DA1	POR
PAC 2200 DIN rail meter with integrated ethernet port for MODBUS TCP 65A direct connection Class 1 accuracy	7KM2200-2EA40-1EA1	POR
PAC3200T DIN rail meter with integrated ethernet port for MODBUS TCP High accuracy of class 0.5 Without display	7KM3200-0CA01-1AA0	POR

POR: Price On Request
Std. Pkg. = 1 unit
* LP - List Price

- PAC 2200 and PAC 3200T:
- Reliable and Easy energy monitoring for DIN rail Applications
- Compact design on standard mounting rail
 - Integrated digital input (DI) and Digital output (DO)
 - Integrated web server
 - Neutral conductor current display
 - THD Measurement



Energy Management System

SENTRON 7KT PAC 1600 DIN Rail mounted compact Energy Meters

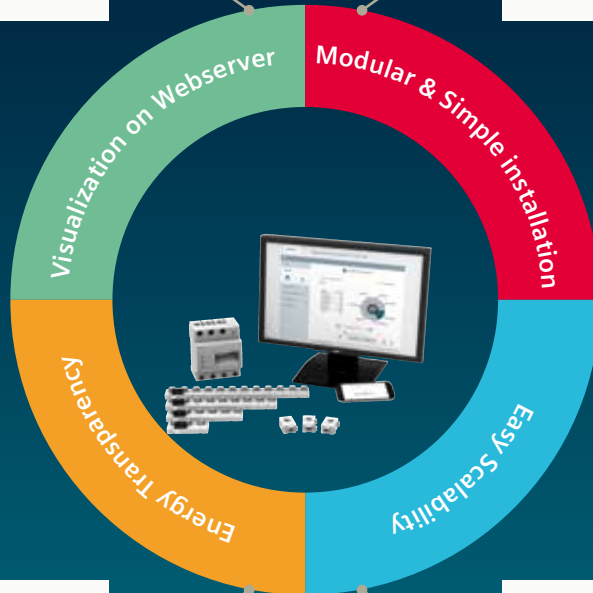
- PAC 1600 range of single phase and three phase meters
- Space saving mounting by very slim construction
- Energy counters for active, reactive and apparent energy
- THD: Up to 15th harmonics

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- Modbus TCP/IP communication
- Simple configuration of system via powerconfig and web server
- Visualization of consumption via Webserver and Mobile App (Android /iOS)

- Flexible sensor bars and current sensors to record up to 96 circuits in one system
- Current sensors simply plug onto the sensor bars, eliminating extensive wiring

fast



plug
and
play

- Targeted detection of power guzzlers
- Simultaneous display of power consumption and costs
- Ensures optimal power monitoring

- Easy to Upgrade
- Scale up the system without any interruption or cumbersome wiring



Easy



Transparent



Cost-efficient



for more
info scan
QR code



SMART 7KT

Power Monitoring Devices

Expanding the reach of technology

SIEMENS