## Data sheet



SENTRON, measuring device, 7KM PAC4200, LCD, L-L: 690 V, L-N: 400 V, 5 A, 3-phase, Modbus TCP, optional Modbus RTU / PROFINET / PROFIBUS / DI/DO, apparent/active/reactive energy / cos phi, harmonics: 3.-31., THD, class 0.2 acc. to IEC61557-12 or cl. 0.2S acc. to IEC62053-22, wide-range pwr sup. unit AC/DC, screw terminals

Model		
product brand name	SENTRON	
product designation	7KM PAC4200	
design of the product	compact	
product type designation	Measuring instrument	

Measurements	
measuring procedure	
<ul> <li>for voltage measurement</li> </ul>	TRMS
• for current measurement	TRMS
type of measured value detection	complete
voltage curve	Sinusoidal or distorted
measurable line frequency	
• initial value	45 Hz
• full-scale value	65 Hz
operating mode for measured value detection	Yes
automatic line frequency detection	
operating mode for measured value detection	
• set at 50 Hz	No

design of the power supply type of voltage of the supply voltage  Degree of protection/protection class protection class IP on the front operating resource protection class when installed II  Suitability suitability for operation  voltage measurement ves current measurement current measurement ves eachiev power measurement ves eachiev power measurement ves  Display and operation  design of the display color of the display color of the background of the display white illuminance of display backlight adjustable display controst adjustable display controst adjustable display controst adjustable display controst adjustable restination number of interfaces acc. to Fast Ethernet three-for the display protocol at the Ethernet interface is supported monosure of the Sethernet three-for thre	• set to 60 Hz	No	
design of the power supply type of voltage of the supply voltage  AC/DC  Degree of protection/protection class protection class IP on the front operating resource protection class when installed  Suttability suitability suitability for operation  Product Functions product function  • voltage measurement • current measurement • carrent weasurement • reactive power measurement  • reactive power measurement  design of the display  beight of the display  color of the background of the display  white  Illuminance of display backlight adjustable display controlled reduction of the illuminance of display  display controlled reduction of the illuminance of display  display controlled reduction of the illuminance of display  display contrast adjustable  pastolla passible  display contrast adjustable  randon allanguage on the display screen is supported  number of keys  Communication  number of interfaces acc. to Fast Ethernet thoreface protocol at the Ethernet interface protocol at the Ethernet interface protocol at the Ethernet 10 Mbit/s  Transfer rate 1 for Ethernet 10 Mbit/s  Transfer rate 2 for Ethernet 10 Mbit/s	Supply voltage		
type of voltage of the supply voltage  Degree of protection/protection class protection class IP on the front operating resource protection class when installed II  Suitability suitability for operation Installation in stationary control panels in closed rooms  Product Functions product function  • voltage measurement Yes • current measurement Yes • cactive power measurement Yes  Display and operation  design of the display LCD height of the display S4 mm width of the display S5 mm width of the display white Illuminance of display backlight adjustable Yes time-controlled reduction of the illuminance of display backlight possible display contrast adjustable Yes national language on the display screen is supported number of keys  Communication number of interfaces acc. to Fast Ethernet toterface protocol at the Ethernet interface is supported MODBUS TCP transfer rate 2 for Ethernet 100 Mbit/s  Fault limits reference condition for metering accuracy formula for relative total measurement inaccuracy • for measured variable current +/- 0,2 % • for measured variable current		Wide-range power supply	
Degree of protection/protection class protection class IP on the front operating resource protection class when installed II  Suitability suitability or operation Installation in stationary control panels in closed rooms  Product Functions product function • voltage measurement Yes • current measurement Yes • cative power measurement Yes • reactive power measurement Yes  Display and operation  design of the display LCD height of the display S4 mm width of the display S4 mm width of the display S4 mm width of the display Y2 mm color of the background of the display White illuminance of display backlight adjustable Yes time-controlled reduction of the illuminance of display backlight possible display contrast adjustable Yes national language on the display screen is supported ger, en, fr, spa, ita, por, tur, rus, chi, pol number of interfaces acc. to Fast Ethernet 1 type of electrical connection of the fast Ethernet interface protocol at the Ethernet interface is supported MODBUS TCP transfer rate 1 for Ethernet 10 Mbit/s  Tault limits reference condition for metering accuracy formula for relative total measurement inaccuracy • for measured variable voltage • for measured variable current  #/- 0.2 %		AC/DC	
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perating resource protection class when installed  Suitability suitability for operation  Product Functions product function  • voltage measurement • current measurement • cative power measurement • reactive power measurement • reactive power measurement  • reactive power measurement  • reactive power measurement  • resolute for the display  LCD  height of the display  LCD  height of the display  vidth of the display  vidth of the display  illuminance of display backlight adjustable  time-controlled reduction of the illuminance of display  backlight possible  display contrast adjustable  national language on the display screen is supported number of keys  Communication  number of interfaces acc. to Fast Ethernet  type of electrical connection of the fast Ethernet  transfer rate 1 for Ethernet  transfer rate 2 for Ethernet  transfer rate 2 for Ethernet  100 Mbit/s  Fault limits  reference condition for metering accuracy  • for measured variable voltage  • for measured variable current  */- 0,2 %		IDEE	
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product function  • voltage measurement  • current measurement  • current measurement  • active power measurement  • reactive power measurement  Ves  • reactive power measurement  Ves   Display and operation  design of the display  LCD  height of the display  color of the background of the display  white  illuminance of display backlight adjustable  illuminance of display backlight adjustable  ves  time-controlled reduction of the illuminance of display  backlight possible  display contrast adjustable  national language on the display screen is supported  number of keys  Communication  number of interfaces acc. to Fast Ethernet  type of electrical connection of the fast Ethernet  interface  protocol at the Ethernet interface is supported  MODBUS TCP  transfer rate 1 for Ethernet  transfer rate 2 for Ethernet  100 Mbit/s  Fault limits  reference condition for metering accuracy  formuals for relative total measurement inaccuracy  • for measured variable voltage  • for measured variable current  +/- 0,2 %  • for measured variable current	suitability for operation	Installation in stationary control panels in closed rooms	
• voltage measurement     • current measurement     • current measurement     • active power measurement     • reactive power measurement     • Yes      Display and operation     design of the display	Product Functions		
Current measurement	product function		
active power measurement reactive power measure	• voltage measurement	Yes	
Preactive power measurement  Pes  Display and operation  design of the display  width of the display  color of the background of the display  illuminance of display backlight adjustable  time-controlled reduction of the illuminance of display backlight possible  display contrast adjustable  display contrast adjustable  rational language on the display screen is supported ger, en, fr, spa, ita, por, tur, rus, chi, pol number of keys  Communication  number of interfaces acc. to Fast Ethernet  type of electrical connection of the fast Ethernet  interface  protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet  transfer rate 2 for Ethernet  10 Mbit/s  Fault limits  reference condition for metering accuracy  of or measured variable voltage  of or measured variable current  Ves  4 mm  Yes  Yes  yes  yes  yes  yes  yes  yes	current measurement	Yes	
Display and operation  design of the display  height of the display  width of the display  color of the background of the display  illuminance of display backlight adjustable  time-controlled reduction of the illuminance of display  backlight possible  display contrast adjustable  national language on the display screen is supported  number of keys  Communication  number of interfaces acc. to Fast Ethernet  type of electrical connection of the fast Ethernet  interface  protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet  transfer rate 2 for Ethernet  100 Mbit/s  Fault limits  reference condition for metering accuracy  of or measured variable voltage  of or measured variable current  +/- 0,2 %  of or measured variable current  LCD  Admin  vite  ves  ves  yes  yes  yes  yes  yes  ye	active power measurement	Yes	
design of the display  height of the display  width of the display  zolor of the background of the display  white  illuminance of display backlight adjustable  time-controlled reduction of the illuminance of display backlight possible  display contrast adjustable  rational language on the display screen is supported number of keys   Communication  number of interfaces acc. to Fast Ethernet type of electrical connection of the fast Ethernet interface  protocol at the Ethernet interface is supported transfer rate 1 for Ethernet 10 Mbit/s  Fault limits  reference condition for metering accuracy for measured variable voltage  for measured variable current  1-2 mm  4-0,2 %  for measured variable current	reactive power measurement	Yes	
design of the display  height of the display  width of the display  zolor of the background of the display  white  illuminance of display backlight adjustable  time-controlled reduction of the illuminance of display backlight possible  display contrast adjustable  rational language on the display screen is supported number of keys   Communication  number of interfaces acc. to Fast Ethernet type of electrical connection of the fast Ethernet interface  protocol at the Ethernet interface is supported transfer rate 1 for Ethernet 10 Mbit/s  Fault limits  reference condition for metering accuracy for measured variable voltage  for measured variable current  1-2 mm  4-0,2 %  for measured variable current	Disulation		
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width of the display  color of the background of the display  illuminance of display backlight adjustable  time-controlled reduction of the illuminance of display backlight possible  display contrast adjustable  national language on the display screen is supported  number of keys   Communication  number of interfaces acc. to Fast Ethernet  type of electrical connection of the fast Ethernet  interface  protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet  transfer rate 2 for Ethernet  100 Mbit/s  Fault limits  reference condition for metering accuracy  of or measured variable voltage  of or measured variable current  72 mm  white  Yes  Yes  yes  14  Yes  15, spa, ita, por, tur, rus, chi, pol  ACC. Wes  4  Communication  RJ45 (8P8C)  interface  protocol at the Ethernet interface is supported  MODBUS TCP  transfer rate 1 for Ethernet  100 Mbit/s  100 Mbit/s  100 Mbit/s			
color of the background of the display  illuminance of display backlight adjustable  time-controlled reduction of the illuminance of display backlight possible  display contrast adjustable  national language on the display screen is supported query of keys  Communication  number of keys  Communication  number of interfaces acc. to Fast Ethernet type of electrical connection of the fast Ethernet interface protocol at the Ethernet interface is supported transfer rate 1 for Ethernet transfer rate 2 for Ethernet 100 Mbit/s  Fault limits reference condition for metering accuracy of tor measured variable voltage of the fast experiment for measured variable current  white  Yes  Yes  Acc. to IEC61557-12  formula for relative total measurement inaccuracy of or measured variable current  white  Yes  Yes  Acc. to IEC61557-12  formula for relative total measurement inaccuracy of or measured variable current  white  Yes  Yes  Acc. to IEC61557-12			
illuminance of display backlight adjustable  time-controlled reduction of the illuminance of display backlight possible  display contrast adjustable national language on the display screen is supported query eq., fr, spa, ita, por, tur, rus, chi, pol number of keys   Communication number of interfaces acc. to Fast Ethernet type of electrical connection of the fast Ethernet interface protocol at the Ethernet interface is supported transfer rate 1 for Ethernet transfer rate 2 for Ethernet 100 Mbit/s  Fault limits reference condition for metering accuracy formula for relative total measurement inaccuracy for measured variable voltage for measured variable current  Yes Yes  Yes  Nes  Nes  Nes  Nes  Nor, spa, ita, por, tur, rus, chi, pol  4  Autor, rus, chi, pol  Autor, rus, rus, rus, rus, rus, rus, rus, ru			
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display contrast adjustable  rational language on the display screen is supported ger, en, fr, spa, ita, por, tur, rus, chi, pol number of keys  Communication number of interfaces acc. to Fast Ethernet type of electrical connection of the fast Ethernet interface protocol at the Ethernet interface is supported transfer rate 1 for Ethernet transfer rate 2 for Ethernet  Fault limits reference condition for metering accuracy of for measured variable voltage of the display screen is supported fire, spa, ita, por, tur, rus, chi, pol ger, en, fr, spa, ita, por, tur, rus, chi, pol munication  NUBLIST  NUBLI			
national language on the display screen is supported  number of keys  Communication  number of interfaces acc. to Fast Ethernet  type of electrical connection of the fast Ethernet interface  protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet  transfer rate 2 for Ethernet  100 Mbit/s  Fault limits  reference condition for metering accuracy  of for measured variable voltage  of or measured variable current  equation of turn, rus, chi, pol  advanta, por, tur, rus, chi, pol  advanta, por, por, por, por, por, por, por, por			
number of keys  Communication  number of interfaces acc. to Fast Ethernet     type of electrical connection of the fast Ethernet     interface  protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet     10 Mbit/s  transfer rate 2 for Ethernet  Fault limits  reference condition for metering accuracy formula for relative total measurement inaccuracy  • for measured variable voltage  • for measured variable current  4  Communication  RJ45 (8P8C)  MODBUS TCP  10 Mbit/s  Acc. to IEC61557-12	display contrast adjustable	Yes	
Communication  number of interfaces acc. to Fast Ethernet  type of electrical connection of the fast Ethernet interface  protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet  transfer rate 2 for Ethernet  100 Mbit/s  Fault limits  reference condition for metering accuracy formula for relative total measurement inaccuracy  • for measured variable voltage • for measured variable current  1 type of electrical connection of the fast Ethernet  RJ45 (8P8C)  MODBUS TCP  100 Mbit/s  Acc. to IEC61557-12	national language on the display screen is supported	ger, en, fr, spa, ita, por, tur, rus, chi, pol	
number of interfaces acc. to Fast Ethernet  type of electrical connection of the fast Ethernet interface  protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet  transfer rate 2 for Ethernet  10 Mbit/s  Fault limits  reference condition for metering accuracy  formula for relative total measurement inaccuracy  of tor measured variable voltage  for measured variable current  1 RJ45 (8P8C)  MODBUS TCP  10 Mbit/s  100 Mbit/s  Acc. to IEC61557-12	number of keys	4	
number of interfaces acc. to Fast Ethernet  type of electrical connection of the fast Ethernet interface  protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet  transfer rate 2 for Ethernet  10 Mbit/s  Fault limits  reference condition for metering accuracy  formula for relative total measurement inaccuracy  of tor measured variable voltage  for measured variable current  1 RJ45 (8P8C)  MODBUS TCP  10 Mbit/s  100 Mbit/s  Acc. to IEC61557-12	Communication		
interface  protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet  10 Mbit/s  transfer rate 2 for Ethernet  100 Mbit/s  Fault limits  reference condition for metering accuracy  formula for relative total measurement inaccuracy  • for measured variable voltage  • for measured variable current  MODBUS TCP  10 Mbit/s  Acc. to IEC61557-12		1	
protocol at the Ethernet interface is supported  transfer rate 1 for Ethernet  10 Mbit/s  transfer rate 2 for Ethernet  100 Mbit/s  Fault limits  reference condition for metering accuracy  formula for relative total measurement inaccuracy  • for measured variable voltage  • for measured variable current  MODBUS TCP  10 Mbit/s  Acc. to IEC61557-12	type of electrical connection of the fast Ethernet	RJ45 (8P8C)	
transfer rate 1 for Ethernet  10 Mbit/s  transfer rate 2 for Ethernet  100 Mbit/s  Fault limits  reference condition for metering accuracy  formula for relative total measurement inaccuracy  • for measured variable voltage  • for measured variable current  10 Mbit/s  Acc. to IEC61557-12  +/- 0,2 %  +/- 0,2 %	interface		
transfer rate 2 for Ethernet  Fault limits  reference condition for metering accuracy  Acc. to IEC61557-12  formula for relative total measurement inaccuracy  • for measured variable voltage  +/- 0,2 %  • for measured variable current  +/- 0,2 %	protocol at the Ethernet interface is supported	MODBUS TCP	
Fault limits  reference condition for metering accuracy  formula for relative total measurement inaccuracy  • for measured variable voltage  • for measured variable current  +/- 0,2 %	transfer rate 1 for Ethernet	10 Mbit/s	
reference condition for metering accuracy  Acc. to IEC61557-12  formula for relative total measurement inaccuracy  • for measured variable voltage  • for measured variable current  +/- 0,2 %	transfer rate 2 for Ethernet	100 Mbit/s	
reference condition for metering accuracy  Acc. to IEC61557-12  formula for relative total measurement inaccuracy  • for measured variable voltage  • for measured variable current  +/- 0,2 %	Fault limits		
<ul> <li>for measured variable voltage</li> <li>for measured variable current</li> <li>+/- 0,2 %</li> <li>+/- 0,2 %</li> </ul>		Acc. to IEC61557-12	
• for measured variable current +/- 0,2 %	formula for relative total measurement inaccuracy		
	• for measured variable voltage	+/- 0,2 %	
• for measured variable output factor +/- 2 %	• for measured variable current	+/- 0,2 %	
	• for measured variable output factor	+/- 2 %	

• for measured variable active energy

Class 0.2 according to IEC61557-12 and/or class 0.2S according

to IEC62053-22

• for measured variable reactive energy

Class 2 according to IEC61557-12 and/or IEC62053-23

Inputs Outputs		
number of digital inputs	2	
type of electrical connection at the digital inputs	screw-type terminals	
operating conditions for digital inputs external voltage	Yes	
supply		
input voltage at digital input at DC maximum	30 V	
number of digital outputs	2	
type of switching output	solid state	
digital output version	switching or pulse output function	
operating voltage as output voltage at DC maximum permissible	30 V	
type of electrical connection at the digital outputs	screw-type terminals	
output current		
<ul><li>at digital output with signal &lt;0&gt; maximum</li></ul>	0.2 mA	
<ul> <li>at digital output for signal &lt;1&gt; maximum</li> </ul>	27 mA	
• at the digital outputs at DC limited to 100 ms	300 mA	
maximum		
internal resistance at the digital outputs	55 Ω	
standard for pulse emitter	according to IEC62053-31	
pulse duration		
• initial value	30 ms	
• full-scale value	500 ms	
adjustable time period minimum	10 ms	
switching frequency at digital output maximum	20 Hz	
property of the output short-circuit proof	Yes	
measuring category for digital signals	CATI	
Measuring inputs		
measurable supply voltage between (PE)N and L at	400 V	
AC maximum rated value	100 0	
measurable supply voltage between (PE)N and L at		
AC		
• minimum	11.5 V	
• maximum	480 V	
measurable supply voltage between the line	690 V	
conductors at AC maximum rated value		
measurable supply voltage between the line		
conductors at AC		
• minimum	20 V	
• maximum	828 V	

voltage measuring range extension with external voltage transformers	Yes	
line conductors and neutral conductors internal resistance for voltage measurement	1.05 ΜΩ	
measuring category for voltage measurement	CATIII	
measurable current		
• 1 at AC rated value	1 A	
• 2 at AC rated value	5 A	
relative measurable current at AC		
• minimum	1 %	
• maximum	120 %	
continuous current at AC maximum permissible	10 A	
current measuring range extension with external current transformers	Yes	
zero point suppression for current measurement	0 10 %	
measuring category for current measurement	CATIII	
Connections		
type of connectable conductor cross-sections		
<ul> <li>at the measurement inputs for voltage solid</li> </ul>	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	
<ul> <li>at the measurement inputs for voltage finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	
<ul> <li>at the measurement inputs for voltage at AWG cables solid</li> </ul>	2x 20 to 14	
• at the measurement inputs for current solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)	
<ul> <li>at the measurement inputs for current finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	
<ul> <li>at the measurement inputs for current at AWG cables solid</li> </ul>	2x 20 to 14	
type of electrical connection		
<ul> <li>at the measurement inputs for voltage</li> </ul>	screw-type terminals	
<ul> <li>at the measurement inputs for current</li> </ul>	screw-type terminals	
Mechanical Design		
size of Power Monitoring Device	size 96	
height	96 mm	
width	96 mm	
depth	82 mm	
installation depth	77 mm	
net weight	543 g	
mounting position	vertical	
Environmental conditions		
ambient temperature during operation		
• minimum	-10 °C	

• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	70 °C
relative humidity at 25 °C without condensation during operation maximum	95 %
installation altitude at height above sea level maximum	2 000 m
degree of pollution	2

Certificates	
certificate of suitability as EC Declaration of	IEC 61010-1: 2001 (2nd Ed.) with Corr. 1, EN 61010-1: 2001 (2nd
Conformity	Ed.) and DIN EN 61010-1:2002 with "Berichtigung 1"
reference code	
• acc. to DIN EN 61346-2	P

General	Declaration of	Test Certific-	other
Product Ap-	Conformity	ates	
proval			





Type Test Certificates/Test Report

Confirmation

Manufacturer Declaration

## Further information

Information- and Downloadcenter (catalogues, leaflets,...)

http://www.siemens.com/energy-automation

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KM4212-0BA00-3AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/7KM4212-0BA00-3AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=7KM4212-0BA00-3AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications





