## **SIEMENS**

## **Data sheet**



SENTRON, meas. device & power quality recorder, 7KM PAC5200, LCD, L-L: 690 V, L-N: 400 V, 10 A, 3-phase, Modbus TCP, apparent/active/reactive energy / cos phi, harmonics: 2.-40., THD, class 0.5 acc. to IEC61557-12 or cl. 0.5S acc. to IEC62053-22, wide-range pwr sup. unit AC/DC, screw terminals

Model				
product brand name	SENTRON			
product designation	7KM PAC5200			
design of the product	Advanced			
product type designation	Measuring instrument and power quality recorder			
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 automatic line frequency detection	Yes			
operating mode for measured value detection				
● set at 50 Hz	No			
• set to 60 Hz	No			
Supply voltage				
design of the power supply	Wide-range power supply			
type of voltage of the supply voltage	AC/DC			
Degree of protection protection class				
protection class IP on the front	IP40			
operating resource protection class when installed	safety class II			
Suitability				
suitability for operation	Installation in stationary control panels in closed rooms			
Product Functions				
product function				
<ul> <li>voltage measurement</li> </ul>	Yes			
<ul> <li>current measurement</li> </ul>	Yes			
<ul> <li>active power measurement</li> </ul>	Yes			
<ul> <li>reactive power measurement</li> </ul>	Yes			
frequency measurement	Yes			
Display and operation				
design of the display	LCD			
height of the display	54 mm			
width of the display	72 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	Yes		
display contrast adjustable	Yes		
national language on the display screen is supported			
number of keys	de, en		
Communication	7		
number of interfaces acc. to Fast Ethernet	1		
	1 RJ45 (8P8C)		
type of electrical connection of the fast Ethernet interface	RJ45 (6P6C)		
Fault limits	1'		
reference condition for metering accuracy	according to IEC 62053-22, IEC 62053-23, IEC 62586-1, Class S, IEC 61000-4-30, IEC 61000-4-7, IEC 61000-4-23		
formula for relative total measurement inaccuracy			
<ul> <li>for measured variable voltage</li> </ul>	+/- 0,2 %		
<ul> <li>for measured variable current</li> </ul>	+/- 0,2 %		
<ul> <li>for measured variable output factor</li> </ul>	+/- 0,5 %		
<ul> <li>for measured variable active energy</li> </ul>	Cl. 0.5 acc. to IEC62053-22		
for measured variable reactive energy	Class 2 according to IEC61557-12 and/or IEC62053-23		
Inputs Outputs			
number of digital inputs	0		
number of digital outputs	2		
type of switching output	solid state		
digital output version	Continuous output, pulse output		
operating voltage as output voltage at DC maximum permissible	250 V		
type of electrical connection at the digital outputs	screw-type terminals		
output current			
at digital output for signal <1> maximum	300 mA		
internal resistance at the digital outputs	35 Ω		
pulse duration			
initial value	50 ms		
full-scale value	3 600 000 ms		
adjustable time period minimum	50 ms		
switching frequency at digital output maximum	10 Hz		
property of the output short-circuit proof	Yes		
measuring category for digital signals	Cat. III		
Measuring inputs			
measurable supply voltage between (PE)N and L at AC maximum rated value	400 V		
measurable supply voltage between the line conductors at AC maximum rated value	690 V		
measurable supply voltage between the line conductors at AC			
• maximum	831 V		
voltage measuring range extension with external voltage transformers	yes		
line conductors and neutral conductors internal resistance for voltage measurement	6 ΜΩ		
measuring category for voltage measurement	CATIII		
measurable current			
• 1 at AC rated value	5 A		
2 at AC rated value	5 A		
relative measurable current at AC			
• minimum	1 %		
maximum	200 %		
current measuring range extension with external current transformers	yes		
zero point suppression for current measurement	0 10 %		
for neutral conductor current	0.0 % to 10.0 % (from Vrated, Irated)		
measuring category for current measurement	CATIII		
Connections			
type of connectable conductor cross-sections			

at the measure	ment inputs for voltage solid	2.5 n	nm²				
<ul> <li>at the measure stranded with cor</li> </ul>	ment inputs for voltage finely e end processing	2.5 n	2.5 mm²				
<ul> <li>at the measure cables solid</li> </ul>	ment inputs for voltage at AWG	Scre	Screw connection				
<ul> <li>at the measure cables solid</li> </ul>	ment inputs for current at AWG	Screw connection					
type of electrical conr	ection						
<ul> <li>at the measure</li> </ul>	ment inputs for voltage	screv	screw-type terminals				
<ul> <li>at the measure</li> </ul>	ment inputs for current	screv	screw-type terminals				
Mechanical Design							
fastening method star	ndard rail mounting	No	No				
size of Power Monitor	ing Device	size	size 96				
height		96 m	96 mm				
width		96 m	96 mm				
depth		147.	147.9 mm				
installation depth		102.	9 mm				
net weight		809	809 g				
mounting position		vertical					
<b>Environmental condit</b>	ions						
ambient temperature	during operation						
<ul><li>minimum</li></ul>		-25 °	-25 °C				
maximum		55 °C	55 °C				
ambient temperature	during storage						
<ul><li>minimum</li></ul>		-40 °C					
maximum		70 °C	70 °C				
relative humidity at 25 operation maximum	5 °C without condensation during	95 %					
installation altitude at	height above sea level maximum	2 00	2 000 m				
degree of pollution		2	2				
Certificates							
certificate of suitability as EC Declaration of Conformity			EN 61000-6-2 and EN 61000-6-4 for EMC guideline				
General Product Approval	Declaration of Conformity		other		Dangerous Good		



UK Declaration of Conformity



Miscellaneous

<u>Dangerous Goods</u> <u>Information</u>

## 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=7KM5412-6BA00-1EA2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/7KM5412-6BA00-1EA2

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

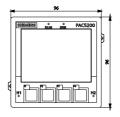
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=7KM5412-6BA00-1EA2

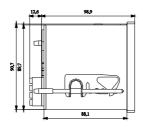
**CAx-Online-Generator** 

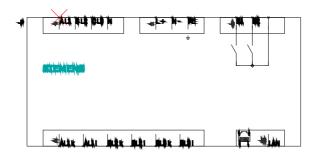
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







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