# **SIEMENS**

## Data sheet

## 7KM2200-2EA40-1CA1

SENTRON, measuring device, 7KM PAC2200, LCD, L-L: 400 V, L-N: 230 V, 65 A, strd rail instr., 3-phase, M-Bus, apparent/ active/reactive energy, self-powered, screw terminals



Model	
product brand name	SENTRON
product designation	7KM PAC2200
design of the product	basic
product type designation	Measuring instrument

Measurements	
measuring procedure	
<ul> <li>for voltage measurement</li> </ul>	TRMS
<ul> <li>for current measurement</li> </ul>	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

• set to 60 Hz	No
Supply voltage	
type of voltage of the supply voltage	AC
Degree of protection/protection class protection class IP on the front	IP40
operating resource protection class when installed	
operating resource protection class when installed	"
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
Display and operation	
design of the display	LCD
height of the display	27 mm
width of the display	45 mm
color of the background of the display	white
illuminance of display backlight adjustable	Yes
time-controlled reduction of the illuminance of display	Yes
backlight possible	
display contrast adjustable	Yes
number of keys	4
Fault limits	
reference condition for metering accuracy	In accordance with IEC61557-12, IEC62053-22 and IEC62053-23
formula for relative total measurement inaccuracy	
<ul> <li>for measured variable active power</li> </ul>	+/- 1 %
<ul> <li>for measured variable reactive power</li> </ul>	+/- 1 %
<ul> <li>for measured variable output factor</li> </ul>	+/- 0,5 %
<ul> <li>for measured variable reactive energy</li> </ul>	Class 2 acc. to IEC61553-23
Inputs Outputs	
number of digital inputs	1
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
input current at digital input	
<ul> <li>initial value for signal&lt;1&gt;-recognition</li> </ul>	2.5 mA
• full-scale value for signal<0> recognition	0.5 mA
number of digital outputs	1
digital output version	switching or pulse output function

type of electrical connection       screw-type terminals         • at the measurement inputs for voltage       screw-type terminals         • at the measurement inputs for current       screw-type terminals		
output current         0.2 mA           • id igital output with signal <0> maximum         0.2 mA           • id igital output for signal <1> maximum         50 mA           • interial resistance at the digital outputs         30 Ω           standard for pulse emitter         according to IEC62053-31           pulse duration         500 mS           • initial value         30 mS           • digital output short-circuit proof         Yes           Measurable supply voltage between (PE)N and L at AC maximum         71 Hz           • ninimum         46 V           • ninimum         56 A           • ninimum         56 A           • ninimum         46 V           • ninimum         54.6 V           • ninimum         56 A           • nonimum         56 A           current transf		30 V
• at digital output with signal <0> maximum0.2 mA• at digital output for signal <1> maximum50 mA• at the digital outputs at DC limited to 100 ms maximum30 Ωinternal resistance at the digital outputs30 Ωstandard for pulse emitter pulse durationaccording to EC62053·31• initial value30 ms• full-scale value500 msadjustable time period minimum10 msswitching frequency at digital output maximum properly of the output short-circuit proofYesMessuriable supply voltage between (PE)N and L at AC200 V• ninimum • enaximum46 V• ninimum • enaximum276 Vmeasurable supply voltage between (PE)N and L at AC400 V• ninimum • enaximum rated value34.6 V• ninimum • naximum34.6 V• ninimum • maximum34.6 V• ninimum • maximum34.6 V• nonimum • maximum35.6 N• nonimum • maximum34.6 V• nonimum • maximum • m	type of electrical connection at the digital outputs	screw-type terminals
Integrate copy for water of the maximum         Form           • at the digital output s at DC limited to 100 ms maximum         130 mA           • at the digital outputs at DC limited to 100 ms maximum         30 Ω           internal resistance at the digital outputs         30 Ω           standard for pulse emitter         according to EC62053-31           pulse duration         30 ms           • initial value         300 ms           - digitable time period minum         10 ms           switching frequency at digital output maximum         17 Hz           property of the output short-circuit proof         Yes           Measuring inputs         220 V           Measurable supply voltage between (PE)N and L at AC maximum rade value         46 V           • minimum         276 V           • maximum         34.6 V           • maximum         34.6 V           • maximum         480 V           voltage measuring range extension with external resistance for voltage measurement         No           • maximum         480 V           voltage measuring range extension with external resistance for voltage measurement         No           • maximum         65 A           current measuring category for voltage         65 A           current measuring range extension with external	output current	
a) the digital outputs at DC limited to 100 ms maximum       130 mA         internal resistance at the digital outputs       30 Ω         standard for pulse emitter       according to EC62053-31         pulse duration       500 ms         • initial value       500 ms         • dil-scale value       500 ms         adjustable time period minimum       10 ms         switching frequency at digital output maximum       17 Hz         property of the output short-circuit proof       Yes         Measurable supply voltage between (PE)N and L at AC maximum rated value       230 V         AC maximum rated value       276 V         measurable supply voltage between (PE)N and L at AC       46 V         • minimum       34.6 V         • maximum       34.6 V         • maximum       480 V         voltage measurable supply voltage between the line conductors at AC       No         • maximum       480 V         voltage measurable supply outge between the line conductors at AC       No         • maximum       480 V         voltage transformers       No         Inconductors and neutral conductors internal resistance for voltage measurement       CATIII         contructors and neutral conductors internal resistance for voltage measurement       65 A <tr< td=""><td><ul> <li>at digital output with signal &lt;0&gt; maximum</li> </ul></td><td>0.2 mA</td></tr<>	<ul> <li>at digital output with signal &lt;0&gt; maximum</li> </ul>	0.2 mA
internal resistance at the digital outputs         30 Ω           standard for pulse emitter         according to IEC62053-31           pulse duration         30 ms           • initial value         30 ms           • full-scale value         500 ms           adjustable time period minimum         10 ms           switching frequency at digital output maximum         17 Hz           property of the output short-circuit proof         Yes           Measuring inputs         measurable supply voltage between (PE)N and L at AC maximum rated value         230 V           • minimum         46 V         230 V           • minimum         46 V         400 V           • maximum         246 V         30 V           • onductors at AC         400 V         400 V           • onductors at AC         480 V         30 V           • maximum         34.6 V         30 V           • orductors at AC         No         30 V           • onductors at AC         No         30 V           • maximum         480 V         30 V           • orductors and neutral conductors internal resistance for voltage measurement         ACTIII           • orductors and neutral conductors internal resistance for voltage measurement         ACTIII           • o	<ul> <li>at digital output for signal &lt;1&gt; maximum</li> </ul>	50 mA
standard for pulse emitteraccording to IEC62053-31pulse duration30 ms• initial value30 ms• full-scale value30 msadjustable time period minimum10 msswitching frequency at digital output maximum17 Hzproperty of the output short-circuit proofYesMeasuriable supply voltage between (PE)N and L at AC maximum rated value230 Vmeasurable supply voltage between (PE)N and L at AC46 V• minimum46 V• minimum46 V• maximum400 V• maximum440 V• maximum440 V• minimum440 V• maximum480 V• minimum56 A• minimum56 A• noncouctors and neutral conductors internal resistance for voltage measurementNovoltage transformersCATIIImeasuring range extension with external voltage transformersCATIIImeasuring range extension with external voltage measuring range extension with external voltage measuring range extension with external voltage measuring range extension with external current measuring range extension with external measuring range extension with external current measuring range extension with external measuring range extension with external 		130 mA
pulse duration         30 ms           • initial value         30 ms           • full-scale value         500 ms           adjustable time period minimum         10 ms           switching frequency at digital output maximum         17 Hz           property of the output short-circuit proof         Yes           Measuring inputs         200 V           measurable supply voltage between (PE)N and L at AC maximum rated value         200 V           measurable supply voltage between (PE)N and L at AC         46 V           • minimum         46 V           • minimum         46 V           • maximum         276 V           measurable supply voltage between the line conductors at AC maximum rated value         400 V           measurable supply voltage between the line conductors at AC maximum rated value         480 V           • minimum         34.6 V           • minimum         480 V           • maximum         1MΩ           • maximum         As 6 V           • maximum         65 A           • maximum         65 A           • continuous current at AC maximum permissible         65 A           current measuring range extension with external current measuring range extension with external current measuring range extension with external current measuring range extension with	internal resistance at the digital outputs	30 Ω
• initial value30 ms• full-scale value500 msadjustable time period minimum10 msswitching frequency at digital output maximum17 Hzproperty of the output short-circuit proofYesMeasuring inputs230 Vmeasurable supply voltage between (PE)N and L at A C maximum rated value230 Vmeasurable supply voltage between (PE)N and L at A C240 V• minimum46 V• minimum276 Vmeasurable supply voltage between the line conductors at AC maximum rated value400 Vmeasurable supply voltage between the line conductors at AC maximum480 V• minimum34.6 V• maximum34.6 V• maximum480 Vvoltage measuring range extension with external voltage measuring range extension with external resistance for voltage measurementNo• measuring category for voltage measurement measuring category for voltage measurement measuring category for current measurementCATIIIConnectionsCATIII• connections • extension with external current measuring range extension with external current measuring range extension with external current measuring range extension with external current transformersNo• connections • extension gate extension with external current transformersCATIIII• connections • at the measurement inputs for voltage • at the measuremen	standard for pulse emitter	according to IEC62053-31
Indicate         500 ms           adjustable time period minimum         10 ms           switching frequency at digital output maximum         17 Hz           property of the output short-circuit proof         Yes           Measuring inputs         230 V           measurable supply voltage between (PE)N and L at AC maximum rated value         230 V           measurable supply voltage between (PE)N and L at AC         26 V           measurable supply voltage between the line         46 V           onductors at AC         46 V           minimum         246 V           measurable supply voltage between the line         400 V           conductors at AC         480 V           woltage measuring range extension with external         No           voltage measuring range extension with external         No           urrent measuring range extension with external         CATIII           continuous current at AC maximum permissible         65 A           current measuring range extension with external         No           current measuring range extension with external         CATIII	pulse duration	
Interface         Interface           adjustable time period minimum         10 ms           switching frequency at digital output maximum         17 Hz           property of the output short-circuit proof         Yes           Measuring inputs         230 V           measurable supply voltage between (PE)N and L at AC maximum rated value         230 V           measurable supply voltage between (PE)N and L at AC         46 V           iminimum         46 V           imaximum         276 V           measurable supply voltage between the line conductors at AC maximum rated value         400 V           measurable supply voltage between the line conductors at AC         No           iminimum         48.0 V           voltage measuring range extension with external voltage measurement         No           voltage measuring range extension with external resistance for voltage measurement         CATIII           continuous current at AC maximum permissible         65 A           current measuring range extension with external current measuring range extension with external current transformers         No           current measuring category for current measurement         CATIII           continuous current at AC maximum permissible         65 A           current measuring category for current measurement         CATIII           connections	initial value	30 ms
switching frequency at digital output maximum17 Hzproperty of the output short-circuit proofYesMeasuring inputs230 Vmeasurable supply voltage between (PE)N and L at AC maximum rated value230 Vmeasurable supply voltage between (PE)N and L at AC200 V• minimum46 V• maximum276 Vmeasurable supply voltage between the line conductors at AC maximum rated value400 V• minimum46 V• maximum34.6 V• maximum480 Vvoltage measuring range extension with external voltage measuring category for voltage measurementNocontinuous current at AC maximum permissible65 Acurrent measuring range extension with external current transformersNoine conductors at Or voltage measurement reasuring category for voltage measurementCATIIIcontinuos current at AC maximum permissible current measuring range extension with external current transformersNocontinuos current at AC maximum permissible current measuring range extension with external current transformersNocontinuos current at AC maximum permissible current measuring range extension with external current transformersNocontinuos current at AC maximum permissible reasuring category for voltage measurementCATIIIcontencionstat the measurement inputs for voltage screw-type terminalsi at the measurement inputs for voltage screw-type terminalsscrew-type terminals	• full-scale value	500 ms
property of the output short-circuit proof         Yes           Measuring inputs         measurable supply voltage between (PE)N and L at AC maximum rated value         230 V           measurable supply voltage between (PE)N and L at AC         240 V           measurable supply voltage between (PE)N and L at AC         45 V           minimum         45 V           measurable supply voltage between the line         276 V           conductors at AC         400 V           measurable supply voltage between the line         400 V           conductors at AC         480 V           woltage measuring range extension with external         No           voltage transformers         1 MΩ           ine conductors and neutral conductors internal         1 MΩ           resistance for voltage measurement         CATIII           continuous current at AC maximum permissible         65 A           current measuring range extension with external         No           current transformers         CATIII           measuring category for current measurement         CATIII           continuous current at AC maximum permissible         65 A           current transformers         CATIII           measuring category for current measurement         CATIII           contectors         CATIII	adjustable time period minimum	10 ms
Measuring inputs         230 V           measurable supply voltage between (PE)N and L at AC maximum rated value         230 V           measurable supply voltage between (PE)N and L at AC         230 V           • minimum         46 V           • maximum         276 V           measurable supply voltage between the line conductors at AC maximum rated value         400 V           measurable supply voltage between the line conductors at AC maximum rated value         400 V           measurable supply voltage between the line conductors at AC         480 V           • minimum         34.6 V           • maximum         480 V           voltage measuring range extension with external voltage transformers         No           line conductors and neutral conductors internal resistance for voltage measurement         CATIII           measuring category for voltage measurement         65 A           current measuring range extension with external current transformers         No           measuring category for current measurement         CATIII           continuous current at AC maximum permissible         65 A           current transformers         CATIII           measuring category for current measurement         CATIII           continuous current at AC maximum permissible         65 A           current transformers         CATIIII	switching frequency at digital output maximum	17 Hz
measurable supply voltage between (PE)N and L at       230 V         AC maximum rated value       26 V         measurable supply voltage between (PE)N and L at       46 V         AC       76 V         measurable supply voltage between the line       400 V         conductors at AC maximum rated value       400 V         measurable supply voltage between the line       400 V         conductors at AC maximum rated value       480 V         measurable supply voltage between the line       80 V         conductors at AC       ************************************	property of the output short-circuit proof	Yes
measurable supply voltage between (PE)N and L at       230 V         AC maximum rated value       26 V         measurable supply voltage between (PE)N and L at       46 V         AC       76 V         measurable supply voltage between the line       400 V         conductors at AC maximum rated value       400 V         measurable supply voltage between the line       400 V         conductors at AC maximum rated value       480 V         measurable supply voltage between the line       80 V         conductors at AC       ************************************	Measuring inputs	
AC maximum rated value       Image: AC maximum rated value         measurable supply voltage between (PE)N and L at AC       AC V         AC maximum       46 V         maximum       276 V         measurable supply voltage between the line conductors at AC maximum rated value       400 V         measurable supply voltage between the line conductors at AC       400 V         conductors at AC       480 V         minimum       448 V         voltage measuring range extension with external voltage transformers       No         line conductors and neutral conductors internal resistance for voltage measurement       1 MΩ         continuous current at AC maximum permissible       65 A         current measuring range extension with external conductors internal resistance for voltage measurement       No         continuous current at AC maximum permissible       65 A         current transformers       CATIII         reasuring category for current measurement       CATIII         continuous current at AC maximum permissible       65 A         current transformers       CATIII         reasuring category for current measurement       CATIII         continuous current at AC maximum permissible       65 A         current transformers       category for current measurement         reasuring category for curren		230 V
AC       46 V         • minimum       46 V         • maximum       276 V         measurable supply voltage between the line conductors at AC maximum rated value       400 V         measurable supply voltage between the line conductors at AC       480 V         • minimum       480 V         • maximum       480 V         voltage measuring range extension with external voltage transformers       No         line conductors and neutral conductors internal resistance for voltage measurement       CATIII         continuous current at AC maximum permissible current measuring range extension with external current transformers       65 A         remeasuring category for current measurement       CATIII         continuous current at AC maximum permissible current transformers       65 A         remeasuring category for current measurement       CATIII         connections       CATIII         remeasuring category for current measurement       CATIII         current transformers       CATIII         remeasuring category for current measurement       CATIII         current transformers       CATIII         remeasuring category for current measurement       Screw-type terminals screw-type terminals		
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measurable supply voltage between the line conductors at AC maximum rated value       400 V         measurable supply voltage between the line conductors at AC       400 V         • minimum       34.6 V         • maximum       480 V         voltage measuring range extension with external voltage transformers       No         line conductors and neutral conductors internal resistance for voltage measurement       1 MΩ         continuous current at AC maximum permissible       65 A         current measuring range extension with external voltage measuring range extension with external resistance for voltage measurement       No         continuous current at AC maximum permissible       65 A         current transformers       No         remeasuring category for voltage measurement       CATIII         current transformers       CATIII         current transformers       CATIII         current transformers       CATIII         reasuring category for current measurement       CATIII         current transformers       current transformers         measuring category for current measurement       CATIII         current transformers       screw-type terminals         e at the measurement inputs for current       screw-type terminals         e at the measurement inputs for current       screw-type terminals	• minimum	46 V
conductors at AC maximum rated valueImage: Conductors at ACmeasurable supply voltage between the line conductors at AC34.6 V• minimum480 V• maximum480 Vvoltage measuring range extension with external voltage transformersNoIne conductors and neutral conductors internal resistance for voltage measurement1 MΩmeasuring category for voltage measurementCATIIIcontinuous current at AC maximum permissible current measuring range extension with external current transformersSAcontinuous current at AC maximum permissible current transformersCATIIIcontinuous current at AC maximum permissible current transformersCATIIIcontinuous current at AC maximum permissible current transformersCATIIIcontinuous current measurementCATIIIconnectionsCATIIIcurrent transformersScrew-type terminalstype of electrical connection • at the measurement inputs for currentscrew-type terminalse at the measurement inputs for currentscrew-type terminals	• maximum	276 V
measurable supply voltage between the line conductors at AC       34.6 V         • minimum       34.6 V         • maximum       480 V         voltage measuring range extension with external voltage transformers       No         line conductors and neutral conductors internal resistance for voltage measurement       1 MΩ         measuring category for voltage measurement       CATIII         continuous current at AC maximum permissible current measuring range extension with external current transformers       No         measuring category for current measurement       CATIII         connections       CATIII         current measuring range extension with external current transformers       No         measuring category for current measurement       CATIII         connections       catten measurement inputs for voltage         e at the measurement inputs for current       screw-type terminals         e at the measurement inputs for current       screw-type terminals	measurable supply voltage between the line	400 V
conductors at AC34.6 V• minimum34.6 V• maximum480 Vvoltage measuring range extension with external voltage transformersNoline conductors and neutral conductors internal resistance for voltage measurement1 MΩmeasuring category for voltage measurementCATIIIcontinuous current at AC maximum permissible65 Acurrent measuring range extension with external current measuring range extension with external current transformersNocontinuous current at AC maximum permissible65 Acontinuous current measurementCATIIIcontinuous current measurementCATIIIcurrent measuring range extension with external current transformersNoreasuring category for current measurementCATIIIconnectionscategory for current measurementtype of electrical connection • at the measurement inputs for voltage • at the measurement inputs for currentscrew-type terminalse at the measurement inputs for currentscrew-type terminals	conductors at AC maximum rated value	
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voltage transformers       1 MΩ         line conductors and neutral conductors internal resistance for voltage measurement       1 MΩ         measuring category for voltage measurement       CATIII         continuous current at AC maximum permissible       65 A         current measuring range extension with external current transformers       No         measuring category for current measurement       CATIII         connections       CATIII         connections       current measurement         type of electrical connection       screw-type terminals         • at the measurement inputs for voltage       screw-type terminals	• maximum	480 V
resistance for voltage measurementCATIIImeasuring category for voltage measurementCATIIIcontinuous current at AC maximum permissible65 Acurrent measuring range extension with external current transformersNomeasuring category for current measurementCATIIIConnectionstype of electrical connection • at the measurement inputs for voltage • at the measurement inputs for currentscrew-type terminals screw-type terminals		No
continuous current at AC maximum permissible65 Acurrent measuring range extension with external current transformersNomeasuring category for current measurementCATIIIConnectionstype of electrical connection • at the measurement inputs for voltage • at the measurement inputs for currentscrew-type terminals screw-type terminals		1 ΜΩ
current measuring range extension with external current transformers       No         measuring category for current measurement       CATIII         Connections       CATIII         type of electrical connection       screw-type terminals         • at the measurement inputs for voltage       screw-type terminals         • at the measurement inputs for current       screw-type terminals	measuring category for voltage measurement	CATIII
current transformers       CATIII         measuring category for current measurement       CATIII         Connections       type of electrical connection         • at the measurement inputs for voltage       screw-type terminals         • at the measurement inputs for current       screw-type terminals	continuous current at AC maximum permissible	65 A
measuring category for current measurement       CATIII         Connections		No
Connections         type of electrical connection         • at the measurement inputs for voltage         • at the measurement inputs for current         screw-type terminals         screw-type terminals		
type of electrical connection       screw-type terminals         • at the measurement inputs for voltage       screw-type terminals         • at the measurement inputs for current       screw-type terminals	measuring category for current measurement	CATIII
<ul> <li>at the measurement inputs for voltage</li> <li>at the measurement inputs for current</li> <li>screw-type terminals</li> <li>screw-type terminals</li> </ul>	Connections	
at the measurement inputs for current     screw-type terminals		
	<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	Mechanical Design	

size of Power Monitoring Device	6MW	
height	97 mm	
width	108 mm	
depth	71 mm	
installation depth	64 mm	
net weight	415 g	
mounting position	any	
Environmental conditions		
ambient temperature during operation		
• minimum	-25 °C	
• maximum	55 °C	
ambient temperature during storage		
• minimum	-25 °C	
• maximum	70 °C	
relative humidity at 25 °C without condensation	75 %	
during operation maximum		
installation altitude at height above sea level	2 000 m	
maximum		
degree of pollution	2	

### Certificates

Declaration of Conformity



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=7KM2200-2EA40-1CA1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/7KM2200-2EA40-1CA1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=7KM2200-2EA40-1CA1

other

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://www.siemens.com/specifications





