

SENTRON, Measuring instrument, 7KM PAC2200, LCD, L-L: 400 V, L-N: 230 V, 1/5 A, M-bus, apparent / active / reactive energy



Model	
Product brand name	SENTRON
Product designation	7KM PAC2200
Design of the product	basic
Product type designation	Measuring instrument
Type of measured value detection	complete
General technical data	
Size of Power Monitoring Device / company-specific	6MW
Operating mode for measured value detection	
<ul style="list-style-type: none"> • automatic line frequency detection 	Yes
<ul style="list-style-type: none"> • set at 50 Hz 	No
<ul style="list-style-type: none"> • set to 60 Hz 	No
Voltage curve	Sinusoidal or distorted
Measurable line frequency / initial value	45 Hz
Measurable line frequency / Full-scale value	65 Hz
Measuring procedure / for voltage measurement	TRMS
Supply voltage	
Type of voltage / of the supply voltage	self-powered

Protection class	
Protection class IP	
<ul style="list-style-type: none"> • Rear side 	IP20
Electricity	
Measurable current / 2 / at AC / Rated value	5 A
Suitability	
Suitability for operation	Standard mounting rail device
Product function	
Product function	
<ul style="list-style-type: none"> • reactive power measurement 	Yes
<ul style="list-style-type: none"> • voltage measurement 	Yes
<ul style="list-style-type: none"> • Current measurement 	Yes
<ul style="list-style-type: none"> • active power measurement 	Yes
Display and operation	
Design of the display	LCD
Number of keys	4
Communication	
Protocol	
<ul style="list-style-type: none"> • is supported 	M-Bus
Fault limits	
Reference condition / for metering accuracy	In accordance with IEC61557-12, IEC62053-22 and IEC62053-23
Inputs Outputs	
Number of digital outputs	1
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Type of switching output	solid state
Type of electrical connection / at the digital outputs	screw-type terminals
Operating conditions for digital inputs / external voltage supply	Yes
Measuring inputs	
Outer conductors and neutral conductors internal resistance / for voltage measurement	1 M Ω
Measurable supply voltage	
<ul style="list-style-type: none"> • between (PE)N and L / at AC / minimum 	46 V
<ul style="list-style-type: none"> • between (PE)N and L / at AC / maximum 	276 V
<ul style="list-style-type: none"> • between (PE)N and L / at AC / maximum rated value 	230 V
<ul style="list-style-type: none"> • between the outer conductors / at AC / maximum rated value 	400 V
Voltage measuring range extension / with external voltage transformers	No

Measuring category / for voltage measurement	CATIII
Supply voltage / between the outer conductors / at AC / maximum permissible	480 V
Continuous current / at AC / maximum permissible	10 A
Current measuring range extension / with external current transformers	Yes
Measuring category / for current measurement	CATIII
Zero-point suppression / for current measurement	10 mA
<ul style="list-style-type: none"> • for neutral conductor current 	45 mA
Relative measurable current / at AC	
<ul style="list-style-type: none"> • minimum 	1 %
<ul style="list-style-type: none"> • maximum 	120 %
Apparent power consumption / for current measurement	
<ul style="list-style-type: none"> • with measuring range 5 A / per phase 	0.5 V·A
Measuring procedure / for current measurement	TRMS
Measurable current / 1 / at AC / Rated value	1 A
Short-time current resistance (I _{cw}) / limited to 1 s / rated value	100 A

Connections

Type of electrical connection

- | | |
|---|----------------------|
| <ul style="list-style-type: none"> • at the measurement inputs for voltage | screw-type terminals |
| <ul style="list-style-type: none"> • at the measurement inputs for current | screw-type terminals |

Mechanical Design

Height	90 mm
Width	108 mm
Depth	64 mm
Mounting position	vertical
Installation depth	70.8 mm
Mounting type / panel mounting	No

Certificates

Declaration of Conformity



EG-Konf.

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=7KM2200-2EA30-1CA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KM2200-2EA30-1CA1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM2200-2EA30-1CA1

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



