

SENTRON, measuring device, 7KM PAC2200, LCD, L-L: 400 V, L-N: 230 V, 5 A, strd rail instr., 3-phase, Modbus TCP, 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
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"> <li>• automatic line frequency detection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• set at 50 Hz</li> </ul>	No
<ul style="list-style-type: none"> <li>• set to 60 Hz</li> </ul>	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"> <li>• Rear side</li> </ul>	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"> <li>• reactive power measurement</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• voltage measurement</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Current measurement</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• active power measurement</li> </ul>	Yes
Display and operation	
Design of the display	LCD
Number of keys	4
Communication	
Protocol	
<ul style="list-style-type: none"> <li>• at the Ethernet interface / is supported</li> </ul>	MODBUS TCP
<ul style="list-style-type: none"> <li>• is supported</li> </ul>	Modbus TCP
Transfer rate	
<ul style="list-style-type: none"> <li>• 1 / for Ethernet</li> </ul>	10 Mbit/s
<ul style="list-style-type: none"> <li>• 2 / for Ethernet</li> </ul>	100 Mbit/s
Fault limits	
Reference condition / for metering accuracy	In accordance with IEC61557-12, IEC62053-22 and IEC62053-23
Inputs Outputs	
Number of digital outputs	1
Number of digital inputs	1
Type of switching output	solid state
Type of electrical connection	
<ul style="list-style-type: none"> <li>• at the digital outputs</li> </ul>	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 MΩ
Measurable supply voltage	
<ul style="list-style-type: none"> <li>• between (PE)N and L / at AC / minimum</li> </ul>	46 V
<ul style="list-style-type: none"> <li>• between (PE)N and L / at AC / maximum</li> </ul>	276 V

<ul style="list-style-type: none"> <li>• between (PE)N and L / at AC / maximum rated value</li> </ul>	230 V
<ul style="list-style-type: none"> <li>• between the outer conductors / at AC / maximum rated value</li> </ul>	400 V
Voltage measuring range extension / with external voltage transformers	No
Current measuring range extension / with external current transformers	Yes
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
Measuring category / for current measurement	CATIII
Zero-point suppression / for current measurement	10 mA
<ul style="list-style-type: none"> <li>• for neutral conductor current</li> </ul>	45 mA
Relative measurable current / at AC	
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	1 %
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	120 %
Apparent power consumption / for current measurement	
<ul style="list-style-type: none"> <li>• with measuring range 5 A / per phase</li> </ul>	0.5 V·A
Measuring procedure / for current measurement	TRMS
Measurable current / 1 / at AC / Rated value	1 A

## Connections

### Type of electrical connection

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

## Mechanical Design

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

## Certificates

### Declaration of Conformity



## 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?mlfb=7KM2200-2EA30-1EA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KM2200-2EA30-1EA1>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7KM2200-2EA30-1EA1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM2200-2EA30-1EA1)

**CAX-Online-Generator**

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

**Tender specifications**

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



