

SENTRON PAC2200 DIN rail POWER MONITORING DEVICE  
 SNAP ON MOUNTING UNIT for MEASUREMENT OF ELECTR.  
 VALUES 1/5A Modbus TCP With display

Model	
Product brand name	SENTRON
Design of the product	basic
Product type designation	Measuring instrument
Type of measured value detection	complete
General technical data	
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
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> <li>• is supported</li> </ul>	MODBUS TCP Modbus TCP
<b>Transfer rate</b> <ul style="list-style-type: none"> <li>• 1 / for Ethernet</li> <li>• 2 / for Ethernet</li> </ul>	10 Mbit/s 100 Mbit/s

Inputs Outputs	
Number of digital outputs	1
Number of digital inputs	1
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 $\Omega$
<b>Measurable supply voltage</b> <ul style="list-style-type: none"> <li>• between (PE)N and L / at AC / minimum</li> <li>• between (PE)N and L / at AC / maximum</li> <li>• between (PE)N and L / at AC / maximum rated value</li> <li>• between the outer conductors / at AC / maximum rated value</li> </ul>	46 V 276 V 230 V 400 V
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
<b>Zero-point suppression / for current measurement</b> <ul style="list-style-type: none"> <li>• for neutral conductor current</li> </ul>	10 mA 45 mA
<b>Relative measurable current / at AC</b> <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	1 % 120 %
<b>Apparent power consumption / for current measurement</b> <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
Short-time current resistance (I <sub>cw</sub> ) / limited to 1 s / rated value	100 A

Connections	
Type of electrical connection	

- at the measurement inputs for voltage
- at the measurement inputs for current

screw-type terminals

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?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>