

SENTRON, measuring device, 7KM PAC3200T, strd mnt. rail encl. w/o display, L-L: 400 V, L-N: 230 V, 5 A, strd rail instr., 3-phase, MODBUS TCP, apparent /active/reactive energy, wide-range pwr sup. unit AC/DC, screw terminals



Model	
Product brand name	SENTRON
Product designation	7KM PAC3200T
Design of the product	basic
Product type designation	Measuring instrument
Type of measured value detection	complete
Design of the power supply	Wide-range power supply

General technical data	
Size of Power Monitoring Device / company-specific	6MW
Operating mode for measured value detection	
• automatic line frequency detection	Yes
• set at 50 Hz	No
• 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	AC/DC
Measuring category / for supply voltage	CATIII
<b>Protection class</b>	
Protection class IP	
<ul style="list-style-type: none"> <li>• Rear side</li> </ul>	IP20
<b>Current</b>	
Measurable current	
<ul style="list-style-type: none"> <li>• 1 / at AC / Rated value</li> <li>• 2 / at AC / Rated value</li> </ul>	1 A 5 A
<b>Suitability</b>	
Suitability for operation	Standard mounting rail device
<b>Product function</b>	
Product function	
<ul style="list-style-type: none"> <li>• reactive power measurement</li> <li>• voltage measurement</li> <li>• Current measurement</li> <li>• active power measurement</li> </ul>	Yes Yes Yes Yes
<b>Display and operation</b>	
Design of the display	Standard mounting rail enclosure without display
Number of keys	4
<b>Communication</b>	
Protocol	
<ul style="list-style-type: none"> <li>• at the Ethernet interface / is supported</li> <li>• is supported</li> </ul>	MODBUS TCP MODBUS TCP
Transfer rate	
<ul style="list-style-type: none"> <li>• 1 / for Ethernet</li> <li>• 2 / for Ethernet</li> </ul>	10 Mbit/s 100 Mbit/s
<b>Fault limits</b>	
Reference condition / for metering accuracy	In accordance with IEC61557-12, IEC62053-22 and IEC62053-23
<b>Inputs Outputs</b>	
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
<b>Measuring inputs</b>	

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	Yes
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

## 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
Installation depth	70.8 mm
Mounting type / panel mounting	No
Mounting position	any

## Certificates



EG-Konf.

[Manufacturer Declaration](#)

## 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=7KM3200-0CA01-1AA0>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/7KM3200-0CA01-1AA0>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7KM3200-0CA01-1AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM3200-0CA01-1AA0)**CAX-Online-Generator**<http://www.siemens.com/cax>**Tender specifications**<http://www.siemens.com/specifications>



