

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
Measurements	
measuring procedure	
• for voltage measurement	TRMS
• for current measurement	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 automatic line frequency detection	Yes
operating mode for measured value detection	
• set at 50 Hz	No

- set to 60 Hz

No

Supply voltage

design of the power supply	Wide-range power supply
type of voltage of the supply voltage	AC/DC

Suitability

suitability for operation	Standard mounting rail device
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Product Functions

product function	
<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
<ul style="list-style-type: none"> • reactive power measurement 	Yes

Display and operation

design of the display	Standard mounting rail enclosure without display
number of keys	4

Communication

protocol at the Ethernet interface is supported	MODBUS TCP
transfer rate 1 for Ethernet	10 Mbit/s
transfer rate 2 for Ethernet	100 Mbit/s

Fault limits

reference condition for metering accuracy	In accordance with IEC61557-12, IEC62053-22 and IEC62053-23
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Inputs Outputs

number of digital inputs	1
operating conditions for digital inputs external voltage supply	Yes
number of digital outputs	1
type of switching output	solid state
type of electrical connection at the digital outputs	screw-type terminals

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	
<ul style="list-style-type: none"> • minimum 	46 V
<ul style="list-style-type: none"> • maximum 	276 V
measurable supply voltage between the line conductors at AC maximum rated value	400 V
voltage measuring range extension with external voltage transformers	Yes

line conductors and neutral conductors internal resistance for voltage measurement	1 MΩ
measuring category for voltage measurement	CATIII
measurable current	
• 1 at AC rated value	1 A
• 2 at AC rated value	5 A
relative measurable current at AC	
• minimum	1 %
• maximum	120 %
continuous current at AC maximum permissible	10 A
current measuring range extension with external current transformers	Yes
zero point suppression for current measurement	10 mA
• for neutral conductor current	45 mA
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

Mechanical Design

size of Power Monitoring Device	6MW
height	90 mm
width	108 mm
depth	64 mm
installation depth	70.8 mm
mounting position	any

Certificates

Declaration of Conformity

other



[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=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

CAX-Online-Generator

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



