



SENTRON, measuring device, 7KT PAC1600, LCD, L-L: 400 V, L-N: 230 V, 5 A, strd rail instr., 3-phase, power monitoring incl. THD, AC/DC, screw terminals

Model	
product brand name	SENTRON
product designation	multimeter
design of the product	basic
product type designation	7KT PAC1600
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	66 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
supply voltage at AC	100 ... 240 V
supply voltage at DC	110 ... 250 V
Degree of protection protection class	
protection class IP on the front	IP40
Suitability	
suitability for operation	Standard mounting rail device
Product Functions	
product function	
• voltage measurement	Yes
• current measurement	Yes
• active power measurement	Yes
• reactive power measurement	Yes
• frequency measurement	Yes
Display and operation	
design of the display	LCD
number of keys	4
Fault limits	
reference condition for metering accuracy	Acc. to IEC62053-21 and IEC62053-23

Inputs Outputs		
number of digital inputs	0	
operating conditions for digital inputs external voltage supply	No	
number of digital outputs	0	
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"> <li>• minimum</li> <li>• maximum</li> </ul>	50 V 415 V	
measurable supply voltage between the line conductors at AC maximum rated value	400 V	
voltage measuring range extension with external voltage transformers	yes	
measuring category for voltage measurement	CAT III	
measurable current <ul style="list-style-type: none"> <li>• 1 at AC rated value</li> <li>• 2 at AC rated value</li> </ul>	5 A 5 A	
relative measurable current at AC <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	0.5 % 120 %	
current measuring range extension with external current transformers	Yes	
zero point suppression for current measurement	25 mA	
apparent power consumption for current measurement <ul style="list-style-type: none"> <li>• with measuring range 5 A per phase</li> </ul>	1.5 VA	
measuring category for current measurement	CATIII	
Connections		
type of electrical connection <ul style="list-style-type: none"> <li>• at the measurement inputs for voltage</li> <li>• at the measurement inputs for current</li> </ul>	screw-type terminals screw-type terminals	
Mechanical Design		
fastening method standard rail mounting	Yes	
size of Power Monitoring Device	4MW	
height	90 mm	
width	71.6 mm	
depth	63 mm	
net weight	280 g	
mounting position	any	
Environmental conditions		
ambient temperature during operation <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-20 °C 60 °C	
ambient temperature during storage <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-30 °C 80 °C	
relative humidity at 25 °C without condensation during operation maximum	80 %	
installation altitude at height above sea level maximum	2 000 m	
degree of pollution	2	
Certificates		
certificate of suitability as EC Declaration of Conformity	yes	
<b>General Product Approval</b>	<b>Declaration of Conformity</b>	<b>other</b>

[Confirmation](#)



[Miscellaneous](#)

[Confirmation](#)

## Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=7KT1681>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KT1681>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7KT1681](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1681)

CAX-Online-Generator

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

Tender specifications

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





