



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

Model	
product brand name	SENTRON
product designation	multimeter
design of the product	basic
Measurements	
measuring procedure	
<ul style="list-style-type: none"> <li>for voltage measurement</li> <li>for current measurement</li> </ul>	TRMS TRMS
type of measured value detection	complete
voltage curve	Sinusoidal or distorted
measurable line frequency	
<ul style="list-style-type: none"> <li>initial value</li> <li>full-scale value</li> </ul>	45 Hz 66 Hz
operating mode for measured value detection automatic line frequency detection	Yes
operating mode for measured value detection	
<ul style="list-style-type: none"> <li>set at 50 Hz</li> <li>set to 60 Hz</li> </ul>	No 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	
<ul style="list-style-type: none"> <li>voltage measurement</li> <li>current measurement</li> <li>active power measurement</li> <li>reactive power measurement</li> <li>frequency measurement</li> </ul>	Yes Yes Yes Yes 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	CATIII	
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	
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](#)

## 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?mfb=7KT1682>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KT1682>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=7KT1682](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=7KT1682)

CAX-Online-Generator

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

Tender specifications

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





