



Figure similar

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		
• minimum	50 V	
• maximum	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		
• 1 at AC rated value	5 A	
• 2 at AC rated value	5 A	
relative measurable current at AC		
• minimum	0.5 %	
• maximum	120 %	
current measuring range extension with external current transformers	Yes	
zero point suppression for current measurement	25 mA	
apparent power consumption for current measurement		
• with measuring range 5 A per phase	1.5 VA	
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		
fastening method DIN-rail mounting	Yes	
size of Power Monitoring Device	4MW	
height	90 mm	
width	72 mm	
depth	63 mm	
net weight	280 g	
mounting position	any	
Environmental conditions		
ambient temperature during operation		
• minimum	-20 °C	
• maximum	60 °C	
ambient temperature during storage		
• minimum	-30 °C	
• maximum	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	
Approvals Certificates		
General Product Approval	other	Environment



[Confirmation](#)



[Environmental Confirmations](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (catalogues, leaflets,...)

<https://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, ...)

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1681

CAX-Online-Generator

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

Tender specifications

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





