



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
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
Communication	

transfer rate minimum	1 200 kbit/s
transfer rate maximum	115 200 kbit/s
<b>Fault limits</b>	
reference condition for metering accuracy	Acc. to IEC62053-21 and IEC62053-23
<b>Inputs Outputs</b>	
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
<b>Measuring inputs</b>	
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	2.2 VA
measuring category for current measurement	CATIII
<b>Connections</b>	
type of electrical connection	
• at the measurement inputs for voltage	screw-type terminals
• at the measurement inputs for current	screw-type terminals
<b>Mechanical Design</b>	
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
<b>Environmental conditions</b>	
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
<b>Certificates</b>	
certificate of suitability as EC Declaration of Conformity	yes
<b>Approvals Certificates</b>	

[Confirmation](#)[Environmental Con-  
firmations](#)**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=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, ...)**[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7KT1682](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1682)**CAX-Online-Generator**<https://www.siemens.com/cax>**Tender specifications**<https://www.siemens.com/specifications>



