



SETRON, 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	SETRON
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
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	2.2 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 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	
• 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[Environmental Confirmations](#)**Further information**

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=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?mlfb=7KT1682

CAx-Online-Generator

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

Tender specifications

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



