## **SIEMENS**

Data sheet 7KT1682



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	
<ul> <li>for voltage measurement</li> </ul>	TRMS
<ul> <li>for current measurement</li> </ul>	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	
<ul> <li>voltage measurement</li> </ul>	Yes
<ul> <li>current measurement</li> </ul>	Yes
<ul> <li>active power measurement</li> </ul>	Yes
<ul> <li>reactive power measurement</li> </ul>	Yes
<ul> <li>frequency measurement</li> </ul>	Yes
Display and operation	
Display and operation design of the display	LCD
	LCD 4
design of the display	

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	
<ul> <li>at the measurement inputs for voltage</li> </ul>	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 Con-firmations

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/7KT168

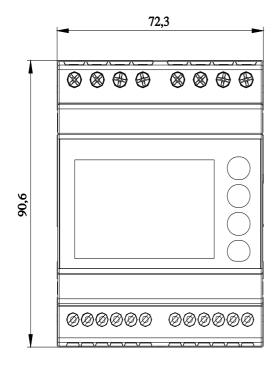
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=7KT1682">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=7KT1682</a>

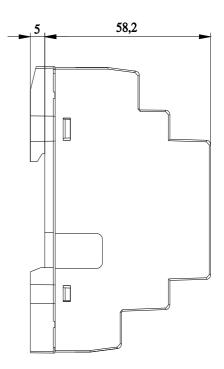
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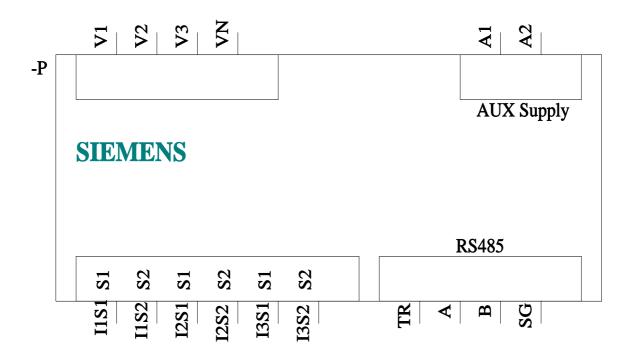
http://www.siemens.com/cax

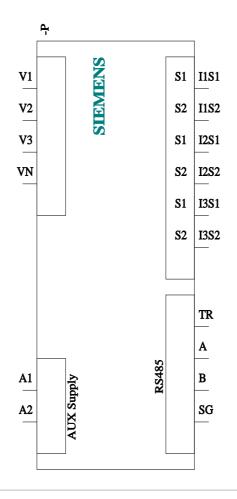
**Tender specifications** 

http://www.siemens.com/specifications









last modified: 9/3/2023 🖸