# **SIEMENS**

## Data sheet

## 7KT1664

SENTRON, measuring device, 7KT PAC1600, LCD, L-L: 400 V, L-N: 230 V, 5 A, strd rail instr., 3-phase, M-Bus + MID, apparent /active/reactive energy, self-powered, screw terminals



Model	
Product brand name	SENTRON
Design of the product	basic
Product type designation	Measuring instrument
Type of measured value detection	complete
General technical data	
Operating mode for measured value detection	
<ul> <li>automatic line frequency detection</li> </ul>	Yes
● set at 50 Hz	No
• set to 60 Hz	No
Voltage curve	Sinusoidal or distorted
Measurable line frequency / initial value	45 Hz
Measurable line frequency / Full-scale value	66 Hz
Measuring procedure / for voltage measurement	TRMS
Supply voltage	
Type of voltage / of the supply voltage	self-powered
Consumed active power	
<ul> <li>without expansion module / typical</li> </ul>	2.7 W

Protection class	
Protection class IP	
• on the front	IP40
• Rear side	IP20
Electricity Measurable current / 2 / at AC / Rated value	5 A
Suitability	
Suitability for operation	Standard mounting rail device
Product function	
Product function	
<ul> <li>reactive power measurement</li> </ul>	Yes
<ul> <li>frequency measurement</li> </ul>	Yes
<ul> <li>voltage measurement</li> </ul>	Yes
Current measurement	Yes
<ul> <li>active power measurement</li> </ul>	Yes
Display and operation	
Design of the display	LCD
Number of keys	3
Communication	
Transfer rate	
• minimum	300 kbit/s
• maximum	38 400 kbit/s
Inputs Outputs	
Input voltage / at digital input	
<ul> <li>initial value for signal&lt;1&gt;-recognition</li> </ul>	85 V
• at DC / maximum	240 V
<ul> <li>Full-scale value for signal&lt;0&gt; recognition</li> </ul>	240 V
Number of digital outputs	0
Number of digital inputs	1
Type of switching output	solid state
Type of electrical connection	
• at the digital outputs	screw-type terminals
Operating conditions for digital inputs / external	Yes
voltage supply	
Measuring inputs	
Measurable supply voltage	
<ul> <li>between (PE)N and L / at AC / minimum</li> </ul>	187 V
<ul> <li>between (PE)N and L / at AC / maximum</li> </ul>	264 V
<ul> <li>between (PE)N and L / at AC / maximum rated</li> </ul>	230 V
value	

<ul> <li>between the outer conductors / at AC /</li> </ul>	400 V
maximum rated value	
Measuring category / for voltage measurement	CATIII
Continuous current / at AC / maximum permissible	6 A
Measuring category / for current measurement	CATIII
Zero-point suppression / for current measurement	10 mA
Relative measurable current / at AC	
• minimum	1 %
• maximum	120 %
Apparent power consumption / for current	_
measurement	
<ul> <li>with measuring range 5 A / per phase</li> </ul>	3 V·A
Measuring procedure / for current measurement	TRMS
Measurable current / 1 / at AC / Rated value	5 A
Connections	
Type of electrical connection	
<ul> <li>at the measurement inputs for voltage</li> </ul>	screw-type terminals
<ul> <li>at the measurement inputs for current</li> </ul>	screw-type terminals
Mechanical Design	
Height	90 mm
Width	71.6 mm
Depth	63 mm
Mounting type / panel mounting	No
Mounting position	any

Environmental conditions	
Installation altitude / at height above sea level /	2 000 m
maximum	
Relative humidity / at 25 °C / without condensation /	
during operation	
	80 %
Ambient temperature	
	-25 +55 °C
	-25 +70 °C
Certificates	

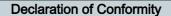
280 g

Certificate of suitability

Net weight

Approval Russia

Yes





EG-Konf.

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KT1664

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/7KT1664

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=7KT1664

#### CAx-Online-Generator http://www.siemens.com/cax

### Tender specifications

http://www.siemens.com/specifications

