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
product designation	7KM PAC1600
design of the product	basic
product type designation	Measuring instrument

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	
type of voltage of the supply voltage	self-powered
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
Display and operation	
design of the display	LCD
number of keys	3
Fault limits	
reference condition for metering accuracy	Acc. to IEC62053-21 and IEC62053-23
Inputs Outputs	
number of digital inputs	1
operating conditions for digital inputs external voltage supply	Yes
input voltage at digital input at DC maximum	240 V
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	187 V
• maximum	264 V
measurable supply voltage between the line conductors at AC maximum rated value	400 V
measuring category for voltage measurement	CATIII
measurable current	
• 1 at AC rated value	5 A
• 2 at AC rated value	5 A
relative measurable current at AC	

• minimum	1 %
• maximum	120 %
continuous current at AC maximum permissible	6 A
zero point suppression for current measurement	10 mA
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

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	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	70 °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

General Product Approval	Declaration of Conformity
IMQ	EG-Konf.

Further information

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=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