7KM5412-6CA00-1EA8

Data sheet



SENTRON, meas. device & power quality recorder, 7KM PAC5200, standard rail housing w/o display L-L: 690 V, L-N: 400 V, 10 A, strd rail instr., 3- phase, Modbus TCP, apparent/ Active/reactive energy / cos phi, harmonics: 2. - 40., THD, class 0.5 acc. to IEC61557-12 or cl. 0.5S acc. to IEC62053-22, wide-range pwr sup. unit AC/DC, screw terminals

Model	
product brand name	SENTRON
product designation	7KM PAC5200
design of the product	Advanced
product type designation	Measuring instrument and power quality recorder
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	65 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
Degree of protection protection class	
protection class IP on the front	IP20
operating resource protection class when installed	safety class II
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	Standard mounting rail enclosure without display
color of the background of the display	white
illuminance of display backlight adjustable	No
time-controlled reduction of the illuminance of display	No

h = 110 - 114 - 11	
backlight possible	N N
display contrast adjustable	No
national language on the display screen is supported	de, en
number of keys	4
Communication	
number of interfaces according to Fast Ethernet	1
type of electrical connection of the fast Ethernet interface	RJ45 (8P8C)
Fault limits	
reference condition for metering accuracy	according to IEC 62053-22, IEC 62053-23, IEC 62586-1, Class S, IEC 61000-4-30, IEC 61000-4-7, IEC 61000-4-15
formula for relative total measurement inaccuracy	
 for measured variable voltage 	+/- 0,2 %
 for measured variable current 	+/- 0,2 %
 for measured variable output factor 	+/- 0,5 %
 for measured variable active energy 	Cl. 0.5 acc. to IEC62053-22
for measured variable reactive energy	Class 2 according to IEC61557-12 and/or IEC62053-23
Inputs Outputs	
number of digital inputs	0
number of digital outputs	2
type of switching output	solid state
digital output version	Continuous output, pulse output
operating voltage as output voltage at DC maximum permissible	250 V
type of electrical connection at the digital outputs	screw-type terminals
output current	
at digital output for signal <1> maximum	300 mA
internal resistance at the digital outputs	35 Ω
pulse duration	
initial value	50 ms
full-scale value	3 600 000 ms
adjustable time period minimum	50 ms
switching frequency at digital output maximum	10 Hz
property of the output short-circuit proof	Yes
measuring category for digital signals	Cat. III
Measuring inputs	
measurable supply voltage between (PE)N and L at AC maximum rated value	400 V
measurable supply voltage between the line conductors at AC maximum rated value	690 V
measurable supply voltage between the line conductors at AC	
• maximum	831 V
voltage measuring range extension with external voltage transformers	yes
line conductors and neutral conductors internal resistance for voltage measurement	6 ΜΩ
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	200 %
current measuring range extension with external current transformers	yes
zero point suppression for current measurement	0 10 %
for neutral conductor current	0.0 % to 10.0 % (from Vrated, Irated)
measuring category for current measurement	CATIII
Connections	
type of connectable conductor cross-sections	
 at the measurement inputs for voltage solid 	2.5 mm ²

stranded with core end processing at the measurement inputs for voltage at AWG cables solid at the measurement inputs for current at AWG cables solid type of electrical connection at the measurement inputs for voltage screw-type te at the measurement inputs for current Mechanical Design fastening method standard rail mounting size of Power Monitoring Device net weight mounting position Environmental conditions ambient temperature during operation minimum	rminals
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relative humidity at 25 °C without condensation during operation maximum installation altitude at height above sea level maximum 2 000 m	
operation maximum installation altitude at height above sea level maximum 2 000 m	
degree of pollution 2	
-	
Certificates	
certificate of suitability as EC Declaration of Conformity EN 61000-6-2	
General Product Approval Declaration of Conformity	2 and EN 61000-6-4 for EMC guideline

UK Declaration of

Conformity

Miscellaneous

Further information

Confirmation

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=7KM5412-6CA00-1EA8

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/7KM5412-6CA00-1EA8

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM5412-6CA00-1EA8

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

Dangerous Goods

Information





