## 7KG9501-0AA31-2AA1

## **SIEMENS**

## **Data sheet**



Multifunctional Power Quality Instrument SICAM Q100, PQI-A, Dimensions 96mm x 96mm x 100mm, Panel flush-mounting device with LCD, power supply voltage: DC 24 - 230 V / AC 110 - 230 V, 4 inputs AC voltage measurement 4 inputs AC current measurement 2 binary in-, 2 binary outputs, Web server for parameterization and visualization, . NTP time synchronization, . CE and UL certification, . 2 GB memory, Ethernet switch, Ethernet interface, RJ45, and communication protocols SNMPv3, Modbus TCP and IEC 61850 server Serial interface, RS485, for Modbus RTU Gateway/Master

Figure similar

Measuring functions		
sampling frequency / per sampling cycle	10 240 Hz	
number of harmonics	63	
product function / phase angle measurement	Yes	
product function / active power measurement	Yes	
product function / reactive power measurement	Yes	
product function / apparent power measurement	Yes	
product function / querying of limit violations	Yes	
product function / logic function	Yes	
product function / measurement of the harmonic active power	Yes	
type of measured value detection / min./max. values	Yes	
type of measured value detection / mean values	Yes	
accuracy class / of the measuring instrument / for measured variable active power / according to IEC 62053-22	0,2S	
accuracy class / of the measuring instrument / for measured variable reactive power	0,5	
storage capacity	2 Gbyte	
Power Quality functions		
power quality assessment function / transient detection/logging	Yes	
power quality assessment function / measurement of the voltage of harmonic components in the range 2 kHz 9 kHz	No	
power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz 150 kHz	No	
power quality assessment function / Total Harmonic Distortion (THD)	Yes	
power quality assessment function / voltage dip	Yes	
power quality assessment function / detection of asymmetry	Yes	
power quality assessment function / detecting and visualization of voltage fluctuations	Yes	
power quality assessment function / measurement of the harmonic phase angle	Yes	
product feature / data evaluation according to EN 50160	Yes	
product function / overvoltage detection	Yes	
product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15	Yes	
accuracy class / of the measuring instrument / according	Class A	

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File formats Type of data format / for record / PODIF Type of data format / for record / PODIF Type of data transmission / via CSV Yes Type of data transmission / via CSV Yes Terrapy Managament function Product function / active energy measurement Product function / reactive energy management	to IEC 61000-4-30	2.040
Type of data formal / for record / PQDIF  Type of data faramission / val CSV  Type of data faramission / val CSV  Yes  Energy Management functions  product function / active energy measurement  product function / active energy measurement  Yes  product function / apparent energy measurement  Yes  energy management function / calculation of load profiles  energy management function / load factor (TOU)  Yes  number of function / attrib  energy management function / load factor (TOU)  Yes  number of inputs / for voltage measurement  ### A		2 040
Type of data format / for record / PQD/f  type of data format / for record / PQD/f  type of data formatission / vac  product function / sactive energy measurement  product function / reactive energy measurement  yes  product function / reactive energy measurement  yes  energy management function / tarfife  ### Accitecture / tarfife		Voc
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product function / active energy measurement		
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product function / reactive energy measurement Yes energy management tentron / relativation of load profiles energy management function / relativation of load profiles energy management function / relativation of load profiles energy management function / load factor (TOU) Yes energy management function / load factor (TOU) Yes number of faritis 8  **Measuring inputs**  number of inputs / for voltage measurement 4  input voltage / between L and L / maximum 690 V  input voltage / between L and L / maximum 10 A  **Supply voltage / between L and N / maximum 10 A  **Supply voltage / reached L and N / maximum 10 A  **Supply voltage / at AC 110 230 V  **supply voltage / at DC 24 250 V  measuring range frequency / at the measurement inputs 42.5 69 Hz  **Suppl voltage / at DC 24 250 V  measuring range frequency / at the measurement inputs 42.5 69 Hz  **Type of voltage / at the supply voltage ACDC  Inputs / Outputs 0  number of analog inputs 0  number of digital inputs 0  number of digital inputs 10  number of digital outputs 2  communication 10 supported / IEC 61850 Yes protocol / is supported / IE		Voc
product function / apparent energy measurement energy management function / calculation of load profiles energy management function / load factor (TOU) Yes energy management function / load factor (TOU) Yes energy management function / load factor (TOU) Yes enumber of loads fath factor (TOU) Yes enumber of loads factor (TOU) Yes enumber of loads for voltage measurement 4 number of inputs / for current / maximum 400 V input voltage / between L and I./ maximum 400 V input voltage / between L and I./ maximum 400 V input voltage / between L and I./ maximum 400 V input voltage / between L and I./ maximum 400 V input voltage / at AC 42 & 250 V enasuing range frequency / at the measurement inputs 4.25 99 Hz yes of voltage / of the supply voltage / at AC 42 & 250 V enasuing range frequency / at the measurement inputs 4.25 99 Hz yes of voltage / of the supply voltage / at AC 50 V enasuing range frequency / at the measurement inputs 4.25 99 Hz yes of voltage / of the supply of of the supply voltage / of the supply voltage / of the supply voltage / of the supply of of of of o		
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energy management function / load factor (TOU)  ves number of tarifs  8  Measuring inputs  unwher of inputs / for voltage measurement 4 number of inputs / for voltage / to maximum 690 V input voltage / between L and N / maximum 10 A  Supply voltage / between L and N / maximum 10 A  Supply voltage / at IAC 3 supply voltage / at IAC 3 supply voltage / at IAC 4 supply voltage / at IAC 6 measuring range frequency / at the measurement inputs 7 supply voltage / at IAC 7 supply voltage / at IAC 8 supply voltage / at IAC 9	· · · · · · · · · · · · · · · · · · ·	
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number of inputs / for current measurement		
number of linputs / for current measurement 4	Measuring inputs	
number of inputs / for current measurement   4   input voltage / between L and L / maximum   690 V   input voltage / between L and N / maximum   400 V   input current / maximum   10 A   Supply voltage   st AC   110 230 V   supply voltage / st AC   110 230 V   supply voltage / st AC   24 250 V   measuring range frequency / at the measurement inputs   42 5 69 Hz   type of voltage / of the supply voltage   AC/DC   AC/DC   Inputs / Outputs   2   Inputs / Outputs /	number of inputs / for voltage measurement	4
input voltage / between L and N / maximum 400 V input voltage / between L and N / maximum 10 A Supply voltage   supply voltage   supply voltage   supply voltage / st DC 110 230 V supply voltage / st DC 24 250 V supply voltage / st DC 24 250 V supply voltage / st DC 25 69 Hz lype of voltage / of the supply voltage ACIDC Imputs / Outputs   ACIDC Imputs / Outputs / Outpu		4
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fastening method / rack mounting  type of electrical connection  Screw terminals  connectable conductor cross-section  0.2 2.5 mm²		No
connectable conductor cross-section 0.2 2.5 mm <sup>2</sup>		Yes
	type of electrical connection	Screw terminals
Degree of protection / protection class	connectable conductor cross-section	0.2 2.5 mm <sup>2</sup>
	Degree of protection / protection class	

protection class IP / on the front	IP40
protection class IP / rear side	IP20
Environmental conditions	
ambient temperature / during operation	-25 +55 °C
ambient temperature / during storage	-40 +70 °C
Approval certification	
certificate of suitability / CE marking	Yes
certificate of suitability / UL approval	Yes
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=7KG9501-0AA31-2AA1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/7KG9501-0AA31-2AA1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=7KG9501-0AA31-2AA1">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=7KG9501-0AA31-2AA1</a>

Tender specifications http://www.siemens.com/specifications

