



Figure similar

Multifunctional Power Quality Instrument SICAM Q200, PQI-A, Device dimensions (W x H x D): 192 mm x 96 mm x 134.6 mm, Panel flush-mounting device with integrated LCD display, Supply voltage: 110 V – 230 V, 4 inputs AC voltage measurement 4 inputs AC current measurement Without I/O modules, . Web server for parameterization and visualization, . NTP time synchronization, . CE and UL certification, . 2 GB memory, Ethernet switch, Ethernet interface, RJ45, and communication protocol DNP3 IP, Modbus TCP and IEC 61850 server Serial interface, RS485, for Modbus RTU Gateway/Master

Measuring functions	
sampling frequency / per sampling cycle	40 960 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	0,1S
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	Yes
power quality assessment function / measurement of the voltage of harmonic components in the range 9 kHz ... 150 kHz	Yes
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

to IEC 61000-4-30	
sampling frequency / for transient detection	1 MHz
number of sampling values / per 10 sampling cycles	8 192
<b>File formats</b>	
Type of data format / for record / COMTRADE	Yes
Type of data format / for record / PQDif	Yes
type of data transmission / via CSV	Yes
<b>Energy Management functions</b>	
product function / active energy measurement	Yes
product function / reactive energy measurement	Yes
product function / apparent energy measurement	Yes
energy management function / calculation of load profiles	Yes
energy management function / tariffs	Yes
energy management function / load factor (TOU)	Yes
number of tariffs	4
<b>Measuring inputs</b>	
number of inputs / for voltage measurement	4
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
<b>Supply voltage</b>	
supply voltage / at AC	110 ... 230 V
supply voltage / at DC	110 ... 250 V
measuring range frequency / at the measurement inputs	42.5 ... 69 Hz
type of voltage / of the supply voltage	AC/DC
<b>Inputs / Outputs</b>	
number of analog inputs	0
number of digital inputs	0
number of analog outputs	0
number of digital outputs	0
<b>Communication</b>	
protocol / is supported / IEC 61850	Yes
protocol / is supported / Modbus TCP	Yes
protocol / is supported / Modbus RTU	Yes
protocol / is supported / SNMP	Yes
protocol / is supported / OPC UA with PubSub	Yes
communication function / Modbus RTU as master	Yes
number of ports / of the Ethernet interface	2
product function / gateway function for Modbus RTU	Yes
<b>Cybersecurity</b>	
type of access control / role-based access control (RBAC)	Yes
product function / logging via Audit log	Yes
product function / logging via Security Eventlog	Yes
service / as web server / HTTPS	Yes
product function / firmware identifier	Yes
<b>Time synchronization</b>	
type of time synchronization	NTP
<b>Mechanical Design</b>	
width	192 mm
height	96 mm
depth	134.6 mm
weight	1 200 g
product feature / with display	Yes
fastening method / standard rail mounting	No
fastening method / wall mounting	No
fastening method / rack mounting	Yes
type of electrical connection	Screw terminals
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=7KG9711-0AA10-0BB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KG9711-0AA10-0BB0>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=7KG9711-0AA10-0BB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KG9711-0AA10-0BB0)

**Tender specifications**

<http://www.siemens.com/specifications>

