

Power Monitoring Device and Class A power quality recorder
Dimensions: 192 mm x 96 mm x 134.6 mm Control panel instrument
with graphical display Integrated LCD display Auxiliary power supply:
Power supply AC/DC (110 V to 230 V) without I/O modules without
I/O modules Modbus TCP (rated measured values and PQ measured
values/results) 4 x 1 A/5 A current inputs 4 x voltage measurement
inputs (PQI Class A) and logging



Figure similar

Measurements	
Sampling frequency / per sampling cycle	40 960 Hz
Number of harmonics	63
Product function / active power measurement	Yes
Product function / reactive power measurement	Yes
Product function / Apparent power measuring	Yes
Product function / query limit value violations	Yes
Product function / Logics functionality	Yes
Product function / measurement of harmonic active power	Yes
Type of measured value acquisition / min./max.-values	Yes
Type of measured value acquisition / average values	Yes
Storage capacity	2 Gbyte
Power Quality functions	
Power quality function / Transient detection/Logging	Yes
Power quality function / voltage dip/sag	Yes

Power quality function / measurement of harmonic phase angle	Yes
Product function / Overvoltage detection	Yes
Product function / integrated / for voltage fluctuations by flickers / according to IEC 61000-4-15	Yes

File transfer formats

Type of data format / for record / COMTRADE	Yes
Type of data format / for record / PQDif	Yes

Energy management functions

Product function / Active energy measurement	Yes
Product function / Reactive energy measuring	Yes
Product function / Apparent energy measuring	Yes
Energy management function / Tariff	Yes
Energy management function / Time of Use (TOU)	Yes

Measuring inputs

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

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

Inputs / Outputs

Number of analog inputs	0
Number of analog outputs	0
Number of digital inputs	0
Number of digital outputs	0

Communication

Protocol / is supported / IEC 61850	No
Protocol / is supported / Modbus TCP	Yes
Protocol / is supported / Modbus RTU	Yes
Protocol / is supported / SNMP	Yes
Communication function / Modbus RTU as master	Yes
Number of ports / of Ethernet interface	2

Cyber Security

Service / as web server / HTTPS	Yes
Type of access control / Role Based Access Control (RBAC)	Yes

Mechanical Design

Width	192 mm
Height	96 mm
Depth	134.6 mm
Weight	1 200 g
Mounting type / Standard rail mounting	No
Mounting type / wall mounting	No
Mounting type / rack mounting	Yes
Type of electrical connection	Screw terminals
Connectable conductor cross-section	0.2 ... 2.5 mm²

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

Certificates	
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=7KG9711-0AA00-0BB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KG9711-0AA00-0BB0>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KG9711-0AA00-0BB0

Tender specifications

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