SIEMENS

Data sheet

7KG9711-0AA10-0BB0

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) and IEC 61850 (with COMTRADE and PQDIF file Transfer for PQ data 4 x 1 A/5 A current inputs 4 x voltage measurement inputs (PQI clas. A) and logging

Model	
Product type designation	NO_DATA
Product brand name	NO_DATA
Design of the product	NO_DATA

General technical data

Type of data format / for record

- PQDif
- COMTRADE
- CSV

Yes

Yes

Yes

Product details

Suitability

Suitability for use

Suitability for operation

Type of measured value acquisition

- min./max.-values
 - average values

Yes Yes

Yes Yes

Product feature

- Data logging/recording according to EN 50160
- Mean value recorder
- fault record (Sinus wave recording)

Yes

Special product feature

Product function

Product function	NO_DATA
 voltage measurement 	Yes
Current measurement	Yes
 frequency measurement 	Yes
 active power measurement 	Yes
• reactive power measurement	Yes
 Apparent power measuring 	Yes

Active energy measurement	Yes
Reactive energy measuring	Yes
Apparent energy measuring	Yes
display consumed active-energy	Yes
 display yielded active-energy 	Yes
 display summation active-energy 	Yes
 display reactive energy inductive 	NO_DATA
 display reactive energy capacitive 	NO_DATA
 display summation reactive energy 	NO_DATA
 expandable / THD-measurement of current of harmonics 	Yes
 expandable / THD-measurement of voltage of harmonics 	Yes
 expandable / measurement of current of harmonics 	Yes
 expandable / measurement of voltage of harmonics 	Yes
Logics functionality	Yes
 expandable / measurement limit value violations 	Yes
• query limit value violations	Yes
• integrated / for voltage fluctuations by flickers / according to IEC 61000-4-15	Yes
• integrated / Identify and visualise of voltage fluctuations	Yes
 integrated / synchronization of measuring viewing windows 	Yes
• at the Ethernet interface / serial gateway	Yes
Password protection	Yes
otection function	
ower quality function	
 voltage dip/sag 	Yes

Protection function	
Power quality function	
voltage dip/sag	Yes
• voltage swell	NO_DATA
 TDD according to IEEE 519 	Yes
 Transient detection/Logging and record 	NO_DATA
Energy management function / integrated	
• TOU	Yes
• tariff	Yes
• load profiles	Yes

Control function	
Type of time synchronization	kein Wert

Frequency measurement / in the range 2 kHz ... 9 Yes kHz / according to IEC 61000-4-7 Product component Yes • HMI-HMI operator panel front Yes • integrated / HMI operator panel front Yes • integrated / clock Display and operation Voltage DC/AC Type of voltage Number of voltage inputs 4 Supply voltage NO_DATA • at DC / minimum NO_DATA • at DC / maximum • at AC / minimum 110 V 230 V • at AC / maximum Input voltage • between L and L / maximum 690 V • between L and L / according to UL / maximum 600 V • between L and N / maximum 400 V 347 V • between L and N / according to UL / maximum Input current / maximum 5 A Switching capacity Connections Number of harmonics 63 Inputs / Connections / Sensors Number of current inputs / maximum kein Wert Number of digital inputs / optional 6 Number of digital inputs / Integrated 0 Number of analog inputs / optional 0 Accuracy class / of measuring device / at measured dimension active power / according to IEC 62053-22 Accuracy class / of measuring device / according to IEC 61000-4-30 Accuracy class / for voltage and current measurement / according to IEC 61000-4-30 Accuracy class / for voltage and current Yes measurement / according to IEC 61000-4-30, Klasse

Α

Qutputs	
Number of digital outputs	
Integrated	0
• optional	6
Number of analog outputs	
Integrated	0
• optional	0
Communication	
Type of interface / serial RS 485	Yes
 Design of the interface / Ethernet interface 	Yes
Number of ports / of Ethernet interface	2
Communication function / Modbus RTU as master	Yes
Protocol / is supported	
• IEC 60870-5-104	No
● IEC 61850	Yes
• Modbus TCP	Yes
Modbus RTU	Yes
• PROFIBUS DP	No
• IEC 60870-5-103	No
• SNMP	Yes
• HTTP	Yes
Protection class	
Protection class IP	
• on the front	kein Wert
• Rear side	kein Wert
Mechanical Design	
Width	192 mm
Height	96 mm
Depth	134.6 mm
Environmental conditions	
Ambient temperature / during transport	
• minimum	-25 °C
• maximum	70 °C
Operating temperature	
• minimum	-25 °C
• maximum	55 °C
Certificates	
Standard / for transmitter	
Certificate of suitability / IEC certificate	Yes