

Issued by : NMI Certin B.V.,
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The Netherlands

Applicant : Siemens AG, EM DG PRO
Wernerwerkdam 5
13629 Berlin
Germany

Submitted : **A meter embedding IEC 61000-4-30 Power Quality functions**
Manufacturer : Siemens
Type : SICAM Q100: 7KG9501

Characteristics : See page 2 and further

In accordance with : **IEC 61000-4-30 Ed. 3 (2015)**
"Electromagnetic Compatibility (EMC) – Part 4-30: Testing and measurement techniques – Power quality measurement methods"

Measurement class : IEC 61000-4-30 class A

The undersigned declares that the described product is tested according to the above mentioned standard and meet their requirements, based on a non-recurrent examination. The appertaining test data is presented in type evaluation report number NMI-16200142-01b, granted by NMI Certin B.V.

NMI Certin B.V.
22 June 2016



C. Oosterman
Head Certification Board

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IEC 61000-4-30 Power Quality functions tested

The following IEC 61000-4-30 measurement methods have been tested

Table 1 IEC 61000-4-30 Power Quality functions tested

IEC 62586-2 Clause	Parameter	Class A	Implemented	Comments
6.1	Power frequency	Yes	Yes	
6.2	Magnitude of the supply voltage	Yes	Yes	
6.3	Flicker	Yes	Yes	
6.4	Supply voltage interruptions, dips and swells	Yes	Yes	
6.5	Supply voltage unbalance	Yes	Yes	
6.6	Voltage harmonics	Yes	Yes	
6.7	Voltage inter-harmonics	Yes	Yes	
6.8	Mains signalling voltages on the voltage supply	Yes	Yes	
6.9	Measurement of underdeviation and overdeviation parameters	-----	No	This function is informative in IEC 61000-4-30 (2015)
6.10	Flagging	Yes	Yes	
6.11	Clock uncertainty	Yes	Yes	
6.12	Variation of external influence quantities	Yes	Yes	
6.13	Rapid Voltage Changes (RVC)	Yes	Yes	
6.14	Current Magnitude	Yes	Yes	
6.15	Current Harmonics	Yes	Yes	
6.16	Current Interharmonics	Yes	Yes	
6.17	Current unbalance	Yes	Yes	

The tests are performed in accordance with IEC 62586-2 edition 2 (CDV)



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Characteristics of the measuring instrument

In Table 2 the general characteristics of the measuring instrument are presented.

Table 2 General characteristics

U_{din}	230 V
U_{max}	460 V, CAT III
I_{nom}	1 A (Nominal current used for testing)
I_{max}	10 A
f_{nom}	50 Hz and 60 Hz
Temperature	Rated range of operation: -25°C to +55°C
Power supply range	24 VDC – 250 VDC 110 VAC to 230 VAC 49 to 65 Hz
Software version	V01.21
Hardware version	/CC
Environmental application	Fixed (F), Indoor (I)