Certificate of Conformity

Number CoC-16200649-01b
Project number 16200649

Issued by	:	NMi Certin B.V. Hugo de Grootplein 1 314 EG Dordrecht The Netherlands
Applicant	:	Schneider Electric dba Power Measurement Ltd. 2195 Keating Cross Road Saanichton, BC V8M 2A5 Canada
Submitted	:	**A meter embedding IEC 61000-4-30 class A Power Quality functions** Manufacturer : Schneider Electric Type : PowerLogic ION7650
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" **IEC 62586-2 Ed. 2 (2017)** "Power quality measurement in power supply systems - Part 2: Functional tests and uncertainty requirements"
Measurement class	:	IEC 61000-4-30 class A and S

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-16200649-01b, NMi-16200649-02b and NMi-16200649-03b granted by NMi Certin B.V.

NMi Certin B.V.
30 March 2017

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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	IEC 61000-4-30 class	Comments
6.1 / 7.1	Power frequency	**A + S**	50 and 60 Hz
6.2 / 7.2	Magnitude of supply voltage	**A + S**	
6.3 / 7.3	Flicker	**A + S**	Class F1 230V, 50 Hz / 60 Hz 120V, 50 Hz / 60 Hz
6.4 / 7.4	Supply voltage interruptions, dips and swells	**A + S**	
6.5 / 7.5	Supply voltage unbalance	**A + S**	
6.6 / 7.6	Voltage harmonics	**A + S**	
6.7 / 7.7	Voltage interharmonics	**A + S**	
6.8 / 7.8	Mains signalling voltages on the voltage supply	**A + S**	Method 2
6.9 / 7.9	Measurement of underdeviation and overdeviation parameters	**A**	Not applicable for class S
6.10 / 7.10	Flagging	**A + S**	
6.11 / 7.11	Clock uncertainty testing	**A + S**	
6.12 / 7.12	Variation of external influence quantities	**A + S**	Temperature: 0°C .. +70°C Power supply: 85 – 240 VAC 110 – 300 VDC
6.13 / 7.13	Rapid Voltage Changes (RVC)	**A + S**	
6.14 / 7.14	Magnitude of current	**A + S**	
6.15 / 7.15	Harmonic current	**A + S**	
6.16 / 7.16	Interharmonic currents	**A + S**	
6.17 / 7.17	Current unbalance	**A + S**	
8	Calculation of measurement uncertainty and operating uncertainty	**A + S**	

A : compliance with class A
S : compliance with class S
--- : Not implemented

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_{LN}
U_{max}	345 V_{LN}
I_{nom}	1 A, 5 A or 10 A with external current clamps
I_{max}	10 A, 20 A and also 20 A with the external current clamps Testing is performed up to I_{nom}
f_{nom}	50 Hz and 60 Hz
Temperature	Rated range of operation: 0°C to +70°C
Power supply range	85 – 240 VAC (+/- 10%), 47-63 Hz 110 – 300 VDC (+/- 10%), 45 VA / 20 W
Software version	V410
Hardware version	Revision 5
Environmental application	Fixed (F), Indoor (I)