

Issued by : NMI Certin B.V.
Thijssweg 11
2629 JA Delft
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 ION7400

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 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-15200734-01 and NMI-2274923-01, granted by NMI Certin B.V.

NMI Certin B.V.
8 March 2019


C. Oosterman
Head Certification Board

IEC 61000-4-30 Power Quality functions tested

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

IEC 62586-2 Clause	Parameter	IEC 61000-4-30 class	Comments
7.1	Power frequency	S	50 and 60 Hz
7.2	Magnitude of supply voltage	S	
7.3	Flicker	S	Class F3 230V, 50 Hz 120V, 60 Hz
7.4	Supply voltage interruptions, dips and swells	S	50 and 60 Hz
7.5	Supply voltage unbalance	S	
7.6	Voltage harmonics	S	
7.7	Voltage interharmonics	----	
7.8	Mains signalling voltages on the voltage supply	S	Method 2
7.9	Measurement of underdeviation and overdeviation parameters	----	Not applicable for class S
7.10	Flagging	S	
7.11	Clock uncertainty testing	S	
7.12	Variation of external influence quantities	S	Temperature: -25°C .. +70°C Power supply: 90 – 415 VAC 110 – 415 VDC
7.13	Rapid Voltage Changes (RVC)	----	
7.14	Magnitude of current	S	
7.15	Harmonic current	S	
7.16	Interharmonic currents	----	
7.17	Current unbalance	S	
8	Calculation of measurement uncertainty and operating uncertainty	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 (2017).

Characteristics of the measuring instrument

In the following table, the general characteristics of the measuring instrument are presented.

General characteristics

Model	ION7400
U_{din}	230 V _{LN}
I_{nom}	1 A, 5 A
f_{nom}	50 Hz and 60 Hz
Temperature	Rated range of operation: -25°C to +70°C
Power supply range	90 – 415 VAC (+/- 10%), 50/60 Hz 110 – 415 VDC (+/- 10%)
Software version	002.000.xxx
Hardware version	METSEION74XX
Environmental application	Fixed (F), Indoor (I)