Certificate of Conformity

Number NMi-CoC-23.27
Project number 3658930

Issued by	:	NMi Certin B.V. Thijsseweg 11 2629 JA Delft The Netherlands
Applicant	:	Schneider Electric Canada 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 PM83xx PowerLogic ION74xxA
Characteristics	:	See page 3
In accordance with	:	**IEC 61000-4-30:2015 Ed. 3** "Electromagnetic Compatibility (EMC) – Part 4-30: Testing and measurement techniques – Power quality measurement methods" **IEC 62586-2:2017** "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 standards and meets their requirements, based on a non-recurrent examination. The appertaining test data is presented in the type evaluation report NMi-2274923-01, NMi-2308270-01, and NMi-3658930-01 granted by NMi.

NMi Certin B.V.
9 October 2023

Certification Board

NMi Certin B.V.
Thijsseweg 11
2629 JA Delft
The Netherlands
T +31 88 636 2332
certin@nmi.nl
www.nmi.nl

INSPECTION
RvA I 122

Certificate of Conformity

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 Hz and 60 Hz
6.2/7.2	Magnitude of supply voltage**	**A + S**	230 V
6.3/7.3	Flicker*	**A + S**	Class F1: 230 V, 50 Hz/60 Hz 120 V, 50 Hz/60 Hz
6.4/7.4	Supply voltage interruptions, dips and swells*	**A + S**	Based on $U_{rms(1/2)}$, 50 Hz/60 Hz
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 + 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: -25°C .. +70°C Aux. Power supply: 90 – 415 VAC 110 – 415 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 tested

** The PowerLogic PM8000 meter is tested according to IEC 62586-2 edition 2, as presented in type evaluation report number NMi-2308270-01 and NMi-3658930-01 for Class A.
* The PowerLogic PM8000 meter is tested according to IEC 62586-2 edition 2, as presented in type evaluation report number NMi-2274923-01 for Class S.

Certificate of Conformity

Characteristics of the measuring instrument

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

Table 2 General characteristics

Model*	PowerLogic PM83xx PowerLogic ION74xxA
U_{din}	230 V_{LN}
I_{nom}	5 A
f_{nom}	50 Hz and 60 Hz
Temperature	Rated range of operation: -25°C to +70°C
Auxiliary power supply range	90 – 415 VAC (+/- 10%), 50/60 Hz 110 – 415 VDC (+/- 10%)
Software version	004.005.xxx
Hardware version	03
Environmental application	Fixed (F), Indoor (I)

*xx- represents different hardware order options available.