Certificate of Conformity

Number CoC-16200171-01b
Project number 16200171

Issued by	:	NMi Certin B.V., Hugo de Grootplein 1 314 EG Dordrecht The Netherlands
Applicant	:	Iskra, d.d. Stegne 21 SI-1000 Ljubljana Slovenia
Submitted	:	**A meter embedding IEC 61000-4-30 Power Quality functions** Manufacturer : Iskra, d.d. Type : MC784 / iMC784
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

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-16200171-01b, granted by NMi Certin B.V.

NMi Certin B.V.
6 November 2017

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	IEC 61000-4-30 parameter (clause)	IEC 61000-4-30 class	Comments
6.1	Power frequency (5.1)	**A**	50 Hz and 60 Hz
6.2	Magnitude of the supply voltage (5.2)	**A**	
6.3	Flicker (5.3)	**A**	IEC 61000-4-15 Class F1
6.4	Supply voltage interruptions, dips and swells (5.4 / 5.5)	**A**	50 Hz and 60 Hz
6.5	Supply voltage unbalance (5.7)	**A**	
6.6	Voltage harmonics (5.8)	**A**	
6.7	Voltage inter-harmonics (5.9)	**A**	
6.8	Mains signalling voltages on the voltage supply (5.10)	**A**	Method 1 + Method 2
6.9	Measurement of underdeviation and overdeviation parameters (Annex D)	**A**	
6.10	Flagging (4.7)	**A**	
6.11	Clock uncertainty (4.6)	**A**	
6.12	Variation of external influence quantities	**A**	Temperature: -10°C .. +55°C Power supply: 80 – 276 VAC 70 – 300 VDC
6.13	Rapid Voltage Changes (RVC) (5.11)	**A**	
6.14	Current Magnitude (5.13.2)	**A**	
6.15	Current Harmonics (5.13.4)	**A**	
6.16	Current Interharmonics (5.13.5)	**A**	
6.17	Current unbalance (5.13.6)	**A**	
8	Measurement uncertainty and operating uncertainty	**A**	

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).

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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
I_{nom}	5 A (Nominal current used for testing)
f_{nom}	50 Hz and 60 Hz
Temperature	Rated range of operation: -10°C to +55°C
Power supply range	80 … 276 VAC 70 ... 300 VDC
Software version	FW : 1.08 (measuring software) TFT : 1.08 (display software) OS : 1.07 (system software - Linux)
Hardware version	A
Environmental application	Fixed (F), Indoor (I)