





Number CoC-2373281-01 Project number 2373281 Page 1 of 3

Issued by : NMi Certin B.V.

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Applicant : Dranetz Technologies, Inc

> 1000 New Durham Road Edison New Jersey United States of America

Submitted : A meter embedding IEC 61000-4-30 class A Power Quality functions

> : DRANETZ Manufacturer

: HDPQ-DN-MVS; HDPQ-DN-MVB; HDPQ-DN-MVSTR and Type

HDPQ-DN-MZP

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 : See table 1

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-2373281-01 and NMi-2373281-02, granted by NMi Certin B.V.

NMi Çertin B.V. 17 September 2019

C. Oosterman

Head Certification Board

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Number CoC-2373281-01 Project number 2373281 Page 2 of 3

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	Power frequency	Α	50 Hz
6.2	Magnitude of supply voltage	Α	230 V
6.3	Flicker	A	Class F3 120 V + 230V, 50 Hz
6.4	Supply voltage interruptions, dips and swells	A	50 Hz
6.5	Supply voltage unbalance	Α	
6.6	Voltage harmonics	Α	
6.7	Voltage interharmonics	Α	
6.8	Mains signalling voltages on the voltage supply	A	Method 1
6.9	Measurement of underdeviation and overdeviation parameters		Not implemented
6.10	Flagging	Α	
6.11	Clock uncertainty testing	Α	
6.12	Variation of external influence quantities	A	Temperature: -25 °C +55 °C Power supply: 90 – 250 VAC 100 – 300 VDC
6.13	Rapid Voltage Changes (RVC)	A	
6.14	Magnitude of current	A	
6.15	Harmonic current	A	
6.16	Interharmonic currents	Α	
6.17	Current unbalance	Α	
8	Calculation of measurement uncertainty and operating uncertainty	A	

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

The tests are performed in accordance with IEC 62586-2 edition 2 (2017).







Certificate of Conformity



Number CoC-2373281-01 Project number 2373281 Page 3 of 3





Characteristics of the measuring instrument

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

Table 2 General characteristics

Model	HDPQ-DN-MVS HDPQ-DN-MVB HDPQ-DN-MVSTR HDPQ-DN-MZP		
U_{din}	230 V _{LN}		
I_{nom}	5 A : HDPQ-DN-MVS 1,5 V _{rms} (current transducer input) : HDPQ-DN-MVB		
	HDPQ-DN-MVSTR HDPQ-DN-MZP		
f_{nom}	50 Hz		
Temperature	Rated range of operation : -25°C to +55°C		
Power supply range	90 – 250 VAC, 50Hz 100 – 300 VDC		
Software version	V 2.4.26		
	E : HDPQ-DN-MVS		
Hardware version	D : HDPQ-DN-MVB HDPQ-DN-MVSTR HDPQ-DN-MZP		
Environmental application Fixed (F), Indoor (I)			





