

Issued by : NMI Certin B.V.  
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Applicant : Algodue Elettronica S.r.l.  
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Submitted : **A meter embedding IEC 61000-4-30 class A Power Quality functions**

Manufacturer : Algodue  
Type : PQM3000, PQM3000RGW  
PQM4000, PQM4000RGW

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"

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-15200632-01 granted by NMI Certin B.V.

NMI Certin B.V.  
30 March 2017



C. Oosterman  
Head Certification Board

## 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	<b>A</b>	50 and 60 Hz
6.2	Magnitude of supply voltage	<b>A</b>	
6.3	Flicker	<b>A</b>	Class F3: 230V, 50 Hz
6.4	Supply voltage interruptions, dips and swells	<b>A</b>	
6.5	Supply voltage unbalance	<b>A</b>	
6.6	Voltage harmonics	<b>A</b>	
6.7	Voltage interharmonics	<b>A</b>	
6.8	Mains signalling voltages on the voltage supply	<b>A</b>	Method 1 + 2 (dynamic)
6.9	Measurement of underdeviation and overdeviation parameters	<b>A</b>	
6.10	Flagging	<b>A</b>	
6.11	Clock uncertainty testing	<b>A</b>	
6.12	Variation of external influence quantities	<b>A</b>	Temperature: -25°C .. +55°C Power supply: 85 – 265 VAC
6.13	Rapid Voltage Changes (RVC)	<b>A</b>	
6.14	Magnitude of current	----	
6.15	Harmonic current	----	
6.16	Interharmonic currents	----	
6.17	Current unbalance	----	
8	Calculation of measurement uncertainty and operating uncertainty	<b>A</b>	

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

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

## Characteristics of the measuring instrument

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

**Table 2 General characteristics**

$U_{\text{din}}$	230 V <sub>LN</sub>
$U_{\text{max}}$	345 V <sub>LN</sub>
$f_{\text{nom}}$	50 Hz and 60 Hz
Temperature	Rated range of operation: -25°C to +55°C
Power supply range	85 – 265 VAC 65 – 250 VDC
Software version	v.1.4.1.4
Hardware version	PQM4000 configuration 2.11 PQM3000 configuration 2.11
Environmental application	Fixed (F), Indoor (I)