

Certificate of Conformity

Number CoC-2248960-01 Project number 2248960 Page 1 of 3

Issued by	: NMi Certin B.V. Hugo de Grootplein 1 314 EG Dordrecht The Netherlands		
Applicant	: SATEC LTD 25, Zeev Lev , Har Hotzvim Jerusalem Israel		
Submitted	: A meter embedding IEC 61000-4-30 class A Power Quality functions		
	Manufacturer : Satec LTD Type : PM180		
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-2248960-01, granted by NMi Certin B.V.

NMi Certin B.V. 25 April 2019

C. Oosterman Head Certification Board



This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

Reproduction of the complete document only is permitted.







Certificate of Conformity

Number CoC-2248960-01 Project number 2248960 Page 2 of 3

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
6.1 / 7.1	Power frequency	А	50 and 60 Hz
6.2 / 7.2	Magnitude of supply voltage	А	
6.3 / 7.3	Flicker	Α	Class F1 230V, 50 Hz and 60 Hz
6.4 / 7.4	Supply voltage interruptions, dips and swells	А	50 and 60 Hz
6.5 / 7.5	Supply voltage unbalance	Α	
6.6 / 7.6	Voltage harmonics	Α	
6.7 / 7.7	Voltage interharmonics	Α	
6.8 / 7.8	Mains signalling voltages on the voltage supply	Α	Method 2
6.9 / 7.9	Measurement of underdeviation and overdeviation parameters		Not implemented
6.10 / 7.10	Flagging	Α	
6.11 / 7.11	Clock uncertainty testing	Α	
6.12 / 7.12	Variation of external influence quantities	Α	Temperature: 0°C +70°C Power supply: 50 – 480 VAC 40 – 480 VDC
6.13 / 7.13	Rapid Voltage Changes (RVC)	Α	
6.14 / 7.14	Magnitude of current	Α	
6.15 / 7.15	Harmonic current	Α	
6.16 / 7.16	Interharmonic currents	А	
6.17 / 7.17	Current unbalance	Α	
8	Calculation of measurement uncertainty and operating uncertainty	Α	
A : complianc S : complianc : Not imple	e with class S	·	

Table 1 IEC 61000-4-30 Power Quality functions tested

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



Certificate of Conformity

Number CoC-2248960-01 Project number 2248960 Page 3 of 3

Characteristics of the measuring instrument

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

Model	PM180
U _{din}	230 V _{LN}
Inom	5 A
fnom	50 Hz and 60 Hz
Temperature	Rated range of operation: 0°C to +70°C
Power supply range	50 – 290 VAC, 50/60 Hz 40 – 290 VDC
Software version	V31.05.3X (main version) V31.15.3X (IEC 61850 version)
Hardware version	V.N3
Environmental application	Fixed (F), Indoor (I)

Table 2 General characteristics