

Issued by	NMI Certin B.V., designated and notified by the Netherlands to perform tasks with respect to conformity modules mentioned in article 17 of Directive 2014/32/EU, after having established that the Measuring instrument meets the applicable requirements of Directive 2014/32/EU, to:		
Manufacturer	NRKsM Pondweg 7 2153 PK Nieuw-Vennep The Netherlands		
Measuring instrument	A static Active Electrical Energy Meter		
Type	:	Ex9EMS 3P 4M 100A 2T, Ex9EMS 3P 4M 100A MB 2T and Ex9EMS 3P 4M 100A MO 2T	
Manufacturer's mark or name	:	NRKsM	
Reference voltage	:	3x230/400 V	
Reference current	:	5 A	
Destined for the measurement of	:	electrical energy, in a - three-phase four-wire network - three-phase three-wire network - single-phase two-wire network	
Accuracy class	:	B	
Environment classes	:	M1 / E2	
Temperature range	:	-40 °C / +70 °C	
		Further properties are described in the annexes: - Description T11260 revision 0; - Documentation folder T11260-1.	
Valid until	19 January 2028		

Issuing Authority

NMI Certin B.V., Notified Body number 0122
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C. Oosterman
Head Certification Board

NMI Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
The Netherlands
T +31 78 6332332
certin@nmi.nl
www.nmi.nl

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1 General information about the instrument

All properties of the static active electrical energy meter, whether mentioned or not, shall not be in conflict with the legislation.

1.1 Essential parts

Description	Document	Remarks
measuring sensor	11260/0-06	
printed circuit board	11260/0-12 or 11260/0-13, 11260/0-14, 11260/0-15 or 11260/0-16	All parts of the printed circuit boards are essential, except the components which are related to parts as described in paragraph 1.4 or 1.6.

1.2 Essential characteristics

- 1.2.1 See EU-type examination certificate T11260 revision 0 and the characteristics mentioned below.
- 1.2.2 Approved meter types : Ex9EMS 3P 4M 100A 2T, Ex9EMS 3P 4M 100A MB 2T and Ex9EMS 3P 4M 100A MO 2T
 An explanation of all type designations is presented in document no. 11260/0-02.
- 1.2.3 Frequency : 50 Hz
- 1.2.4 Meter constant : 10.000 imp./kWh
- 1.2.5 Number of registers : 4
- 1.2.6 Error messages : An overview of all error codes is presented in chapter 8.1 of the user manual (document no. 11260/0-03)
- 1.2.7 Phase sequence : the meter is not sensitive to the direction of the applied phase sequence.
- 1.2.8 Export energy : the meter is capable of measuring energy in 2 directions.
 The meter can also be used with 2 phases loaded with import energy and 1 phase loaded with export energy.
- 1.2.9 Software specification (refer to WELMEC 7.2):
- Software type P;
 - Risk Class C;
 - Extensions L, D, S and T are not applicable.

Software version	Identification number (checksum)	Remarks
1.14 or	009C78FA	
1.15 or	009D1585	
1.16 or	009C8616	
1.17 or	009F3097	
1.18 or	009F7302	
1.19 or	009D1081 or 009E8081	
1.20 or	00970C09	
2.18 or	0D010556	
2.19	0D104797	

The checksum is displayed after pressing the left arrow button 4 times.

1.3 Essential shapes

- 1.3.1 The nameplate is bearing at least, good legible, the information as mentioned in the regulations on energy meters. An example of the markings is shown in document no. 11260/0-05.
- 1.3.2 Sealing: see chapter 2.
- 1.3.3 The registration observation is executed by means of a LED.

1.4 Conditional parts

- 1.4.1 Terminal block
 The connections for the current cables on the terminal block have a diameter of at least 7 mm. The cables are connected with the terminal block via a screw. See documents no. 11260/0-09.
 For 3-phase 3-wire connections, a bridge has to be made between pin 13 and 17, as indicated on the markings and in the user manual.
- 1.4.2 Housing
 The meter has got a dustproof housing, which has sufficient tensile strength. The cover is made of synthetic material. Examples of the housing are presented in document no. 11260/0-01 and 11260/0-07 or 11260/0-08.
- 1.4.3 Terminal cover
 The terminal cover is made of synthetic material.
- 1.4.4 Register
 The quantity of measured energy is presented by means of a display with at least 8 elements. The way of presentation is described in chapter 7 of the user manual (document no. 11260/0-03) or document no. 11260/0-04.
- 1.4.5 Tariff control
 When the meter is provided with more than one register, a tariff control is available by means of tariff inputs, whereby the EMC-requirements are fulfilled as described in Annex V of Directive 2014/32/EU.



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- 1.4.6 **Optical communication**
The meter is provided with optical communication. Via the communication no legally relevant data can be altered.
- 1.4.7 **M-Bus (optional)**
The meter may be equipped with M-Bus communication. Via the communication no legally relevant data can be altered.
- 1.4.8 **Modbus (optional)**
The meter may be equipped with Modbus communication. Via the communication no legally relevant data can be altered.
- 1.4.9 **Copper slice at the buttons (optional)**
The meter may be equipped with copper slices at the buttons in order to promote the sensitivity. See document no. 11260/0-11.

1.5 Conditional characteristics

- 1.5.1 **Maximum current:**
smaller than or equal to 100 A, and at least 5 times higher than the reference current.
- 1.5.2 **Minimum current:** 0,25 A

1.6 Non-essential parts

- 1.6.1 **Pulse output**

2 Seals

The meter casing is sealed with a sealing sticker.
An example of the sealing is presented in document no. 11260/0-10.

3 Conditions for conformity assessment according to module D or F

The influence factors for temperature, frequency and voltage, which are necessary to perform the conformity assessment according to module D or F, are presented in Annex 1, belonging to this EU-type examination certificate.
Based on the WELMEC 11.1, section 2.5.6, the sum of the square values is presented.

