

OIML Member State
The Netherlands

Number R46/2012-A-NL1-21.18 revision 1
Project number 3570814
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Issuing authority
Person responsible: NMi Certin B.V.
M.Ph.D. Schmidt

Applicant and
Manufacturer: Basic Electronics Company Limited, CR#2050129466
Al Hassan Al Basri Street, Al Khaldiah Al Janobiah District
Dammam
Kingdom of Saudi Arabia

Identification of the
certified type: An **Active electrical energy meter**
Type: BE3100WC

Characteristics: See page 2

This OIML Certificate is issued under scheme A

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 46-1/-2 (2012) "Active electrical energy meters"

Accuracy class: B

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority: **NMi Certin B.V., OIML Issuing Authority NL1**
22 August 2023

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated report(s):

- No. NMI-2630085-01 dated 16 November 2021 that includes 54 pages.
- No. NMI-2630085-03 dated 16 November 2021 that includes 9 pages.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.
The construction of the measuring instrument is recorded in the Documentation folder no.3570814-2.

Table 1 General characteristics

General characteristics	
Meter type	static
Connection mode (phase, wires, elements)	3p, 4w, 3e
Direction of energy flow / registers	bi-directional
Terminal arrangement	DIN
Protective class	2
Environmental application	
Ambient temperature range	-40°C to +70°C – tested up to +75°C as a specific customer requirement.
Humidity class	H1
IP Rating / environmental use	IP54 / Indoor
Meter quantities	
Nominal voltage (U_{nom})	3x133V/230V and 3x230V/400V
Nominal frequency (f_{nom})	60 Hz
Maximum current (I_{max})	100 A
Transitional current (I_{tr})	1 A
Minimum current (I_{min})	0,25 A
Starting current (I_{st})	0,04 A
Meter constant	1000 imp./ kWh
Product version	
Hardware version	CT3T013_P1_V01.03 (Main PCB), CT3T013_P2_V01.02 (Power PCB)
Software identification	Version number: P0023 Checksum: CA5794A2H



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Certificate history:

Revision	Date	Description of the modification
0	18 November 2021	Initially issue
1	22 August 2023	Changes in the LCD and resulting software changes has no effects on the previous type tests outcomes.