

EU Type Examination Certificate Number: 0120/SGS0698

# Hexing Technologies Europe S.R.L.

Sat Giarmata  
Comuna Giarmata  
DJ 691 KM 8 + 775 M DREAPTA  
Judet Timis  
Romania

Instrument Identification:  
**HXF300 EU**

**Polyphase, Import/Export (kWh) Smart, Transformer Operated, Electricity Meter**

Instrument Traceable Number  
**0120/SGS0698**

has been assessed and certified as meeting the requirements of

## EU Directive 2014/32/EU on Measuring Instruments Annex II, Module B

It is certified that the manufacturer's technical design and specimen for the above instrument has been examined and, based on the evidence submitted, it is considered that the instrument conforms to the requirements of Annex V of EU Directive 2014/32/EU

This certificate must be used in conjunction with a certificate covering the product verification as required in Annex II, Module D or Annex II, Module F

This certificate is valid for 10 years from 14 June 2024 until 13 June 2034  
Issue 1

Certification is based on report number(s):  
SHES240300581901 Dated 21<sup>st</sup> May 2024, SHES240300581902 Dated 21<sup>st</sup> May 2024  
EMA325783/1

Authorised Signature



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EU-Type Examination Certificate Number:

**0120/SGS0698**

Issue Number: 1

Dated: 14<sup>th</sup> June 2024**1. Technical Data**

<b>Manufacturer</b>	Hexing Technologies Europe S.R.L.
<b>Meter Type</b>	HXF300 EU
<b>Voltage Rating (<math>U_n</math>)</b>	3*57.7/100 V~3*277/480 V
<b>Current Rating (<math>I_{min}</math> – <math>I_{ref}</math> (<math>I_{max}</math>))</b>	0.01-1(10)A, 0.05-5(10)A, 0.05-5(6)A
<b>Frequency (<math>F_n</math>)</b>	50Hz
<b>Active Accuracy Class (kWh)</b>	A or B or C (kWh)
<b>Type of circuit</b>	3p4w
<b>Temperature Range</b>	-40°C to +70°C
<b>Software Version No.</b>	300_V31
<b>CRC Checksum</b>	9FECAA69
<b>Identification Location</b>	LCD
<b>Bill of Materials No.</b>	HXF300 EU BOM-01
<b>IP Rating</b>	IP54
<b>Insulation Protective Class</b>	Class II
<b>LED Pulse Constant</b>	10000 imp/kWh
<b>Impulse Voltage Rating</b>	6kV
<b>AC Voltage Rating</b>	4kV
<b>Main Cover Sealing Type</b>	Wire & Crimp
<b>Integrity of meter</b>	Inaccessible without breaking seals
<b>Intended Location of the Meter</b>	Indoor
<b>Type of Register</b>	LCD
<b>Terminal Arrangement(s)</b>	DIN
<b>Location of Manufacturers Address</b>	Associated Documents

**SGS**

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**2. Photograph of Meter and Sealing Plan**



**SGS**

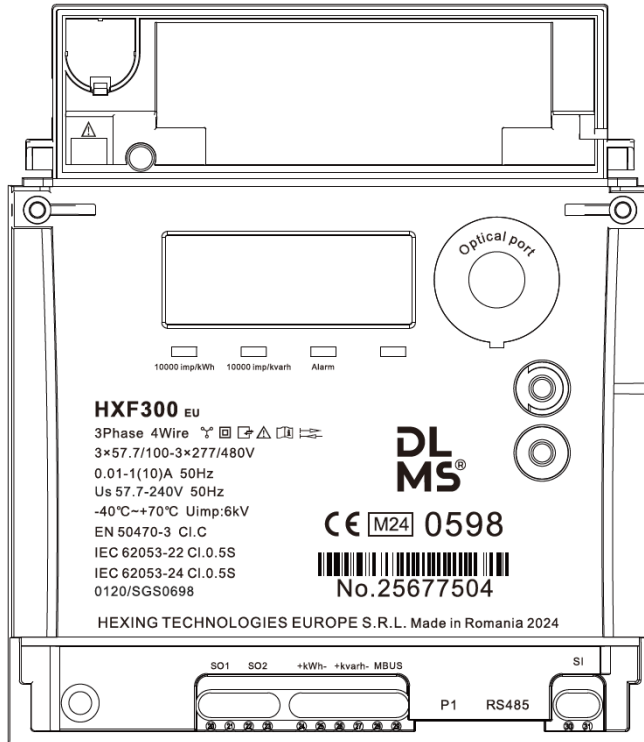
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**3. Examples of Nameplate**





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**Calculation of the composite error/ MPE**

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The table below represents the sum of the square values per load, determined via the following formula:-

$$\delta e(T, U, f) = \sqrt{(\delta e^2(T, I, \cos\phi) + \delta e^2(U, I, \cos\phi) + \delta e^2(f, I, \cos\phi))}$$

where

$\delta e(T, I, \cos\phi)$  = Additional error due to variation of the temperature at the same load

$\delta e(U, I, \cos\phi)$  = Additional error due to variation of the voltage at the same load

$\delta e(f, I, \cos\phi)$  = Additional error due to variation of the frequency at the same load

		Influence Factors for temperature, frequency and voltage							
Current	PF Cos	-40°C	-25°C	-10°C	5°C	30°C	40°C	55°C	70°C
I <sub>min</sub>	1.0	0.26	0.29	0.19	0.27	0.17	0.13	0.12	0.17
I <sub>tr</sub>	1.0	0.17	0.19	0.13	0.16	0.12	0.11	0.13	0.19
10I <sub>tr</sub>	1.0	0.18	0.18	0.18	0.17	0.14	0.13	0.15	0.21
I <sub>max</sub>	1.0	0.19	0.18	0.18	0.17	0.13	0.12	0.13	0.18
I <sub>tr</sub>	0.5ind	0.16	0.15	0.16	0.15	0.15	0.19	0.22	0.32
10I <sub>tr</sub>	0.5ind	0.17	0.17	0.17	0.16	0.14	0.15	0.18	0.25
I <sub>max</sub>	0.5ind	0.19	0.19	0.18	0.17	0.14	0.15	0.17	0.25
I <sub>tr</sub>	0.8cap	0.21	0.22	0.22	0.20	0.15	0.12	0.11	0.15
10I <sub>tr</sub>	0.8cap	0.18	0.18	0.18	0.17	0.12	0.10	0.11	0.16
I <sub>max</sub>	0.8cap	0.20	0.19	0.20	0.18	0.14	0.12	0.12	0.16
L1						0.00	0.00	0.00	0.00
I <sub>tr</sub>	1.0	0.12	0.13	0.14	0.11	0.08	0.07	0.10	0.18
10I <sub>tr</sub>	1.0	0.12	0.13	0.13	0.12	0.07	0.06	0.09	0.16
I <sub>max</sub>	1.0	0.16	0.15	0.16	0.14	0.09	0.07	0.09	0.16
I <sub>tr</sub>	0.5ind	0.11	0.13	0.12	0.11	0.11	0.14	0.21	0.30
10I <sub>tr</sub>	0.5ind	0.07	0.08	0.08	0.07	0.07	0.12	0.17	0.25
I <sub>max</sub>	0.5ind	0.15	0.16	0.15	0.12	0.07	0.07	0.12	0.19
L2									
I <sub>tr</sub>	1.0	0.19	0.20	0.18	0.15	0.08	0.07	0.12	0.23
10I <sub>tr</sub>	1.0	0.19	0.19	0.17	0.15	0.08	0.07	0.10	0.21
I <sub>max</sub>	1.0	0.20	0.20	0.20	0.16	0.09	0.08	0.11	0.20
I <sub>tr</sub>	0.5ind	0.17	0.17	0.17	0.17	0.20	0.24	0.30	0.50
10I <sub>tr</sub>	0.5ind	0.22	0.22	0.13	0.18	0.11	0.11	0.14	0.25
I <sub>max</sub>	0.5ind	0.20	0.20	0.18	0.14	0.08	0.09	0.15	0.25
L3									
I <sub>tr</sub>	1.0	0.15	0.18	0.19	0.17	0.11	0.09	0.10	0.17
10I <sub>tr</sub>	1.0	0.13	0.14	0.14	0.12	0.08	0.07	0.10	0.16
I <sub>max</sub>	1.0	0.16	0.17	0.17	0.15	0.10	0.09	0.11	0.15
I <sub>tr</sub>	0.5ind	0.08	0.11	0.11	0.07	0.03	0.06	0.15	0.29
10I <sub>tr</sub>	0.5ind	0.13	0.15	0.16	0.14	0.09	0.08	0.12	0.18
I <sub>max</sub>	0.5ind	0.09	0.13	0.12	0.10	0.01	0.06	0.12	0.19



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#### 4. Annex of Variants

Product Variant Identification Details:

##### Type Designation

##### Description of meter

HXF300 EU

Voltage: 3\*57.7/100 V~3\*277/480 V, 50Hz  
Current: 0.01-1(10)A, 0.05-5(10)A, 0.05-5(6)A  
Communication: GPRS/4G, G3/Prime

Modifications to the meter(s) described according to approval No.**0120/SGS0698** must be notified to the issuing body to confirm the meter(s) continuing compliance to the relevant pattern approval standard(s).



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**5. Document Revision History**

Issue	Date	Comments
1	14/06/2024	Initial Issue

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**END OF CERTIFICATE**