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 21st May 2024, SHES240300581902 Dated 21st May 2024
EMA325783/1

Authorised Signature

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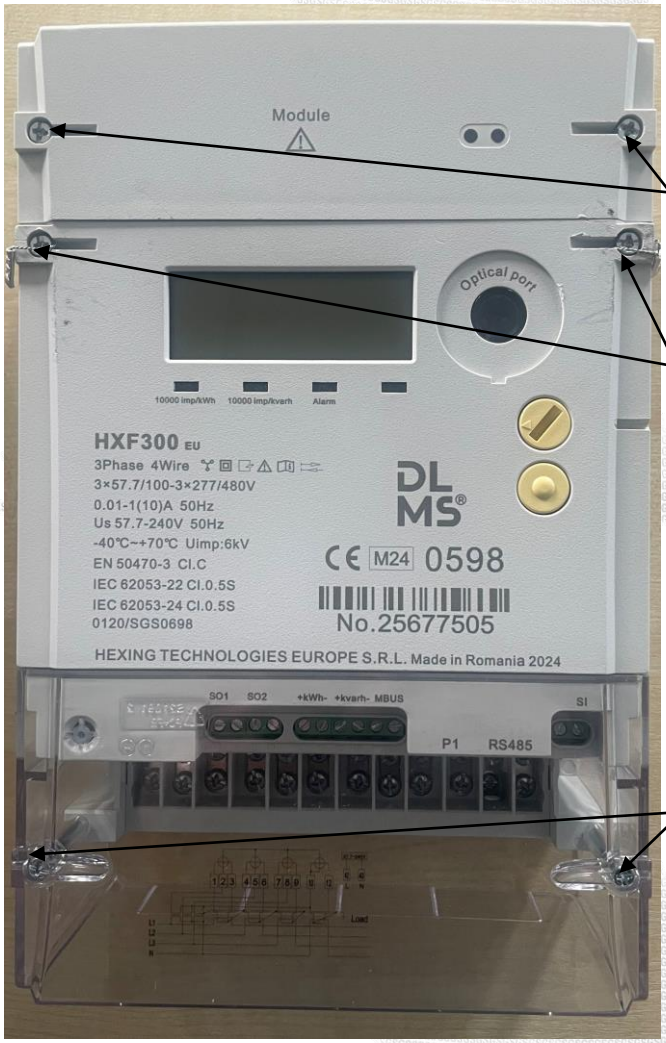
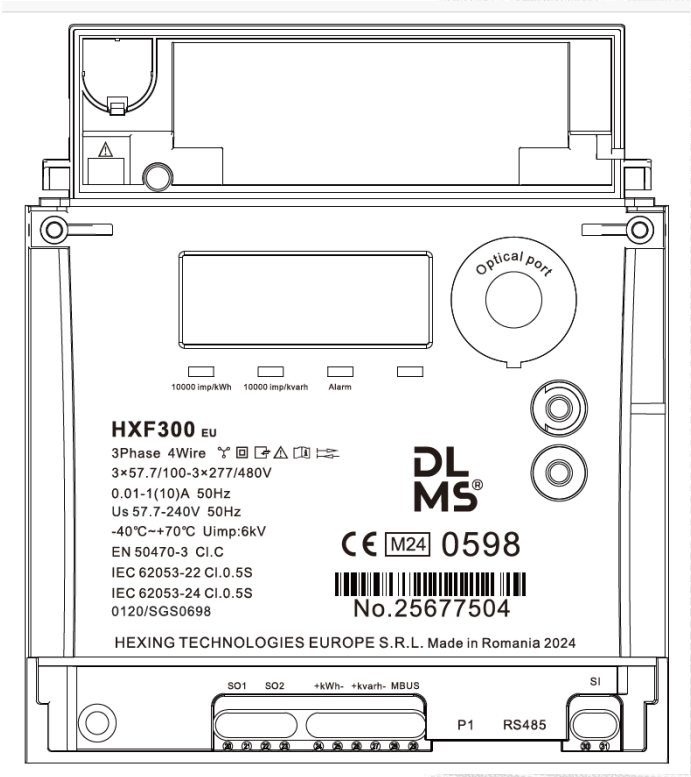
1. Technical Data

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

2. Photograph of Meter and Sealing Plan



3. Examples of Nameplate



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:-

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

where

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

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

$\delta e(f, I, \cos\varphi)$ = 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
Imin	1.0	*0.26*	*0.29*	*0.19*	*0.27*	*0.17*	*0.13*	*0.12*	*0.17*
Itr	1.0	*0.17*	*0.19*	*0.13*	*0.16*	*0.12*	*0.11*	*0.13*	*0.19*
10Itr	1.0	*0.18*	*0.18*	*0.18*	*0.17*	*0.14*	*0.13*	*0.15*	*0.21*
Imax	1.0	*0.19*	*0.18*	*0.18*	*0.17*	*0.13*	*0.12*	*0.13*	*0.18*
Itr	0.5ind	*0.16*	*0.15*	*0.16*	*0.15*	*0.15*	*0.19*	*0.22*	*0.32*
10Itr	0.5ind	*0.17*	*0.17*	*0.17*	*0.16*	*0.14*	*0.15*	*0.18*	*0.25*
Imax	0.5ind	*0.19*	*0.19*	*0.18*	*0.17*	*0.14*	*0.15*	*0.17*	*0.25*
Itr	0.8cap	*0.21*	*0.22*	*0.22*	*0.20*	*0.15*	*0.12*	*0.11*	*0.15*
10Itr	0.8cap	*0.18*	*0.18*	*0.18*	*0.17*	*0.12*	*0.10*	*0.11*	*0.16*
Imax	0.8cap	*0.20*	*0.19*	*0.20*	*0.18*	*0.14*	*0.12*	*0.12*	*0.16*
						0.00	*0.00*	*0.00*	*0.00*
L1									
Itr	1.0	*0.12*	*0.13*	*0.14*	*0.11*	*0.08*	*0.07*	*0.10*	*0.18*
10Itr	1.0	*0.12*	*0.13*	*0.13*	*0.12*	*0.07*	*0.06*	*0.09*	*0.16*
Imax	1.0	*0.16*	*0.15*	*0.16*	*0.14*	*0.09*	*0.07*	*0.09*	*0.16*
Itr	0.5ind	*0.11*	*0.13*	*0.12*	*0.11*	*0.11*	*0.14*	*0.21*	*0.30*
10Itr	0.5ind	*0.07*	*0.08*	*0.08*	*0.07*	*0.07*	*0.12*	*0.17*	*0.25*
Imax	0.5ind	*0.15*	*0.16*	*0.15*	*0.12*	*0.07*	*0.07*	*0.12*	*0.19*
L2									
Itr	1.0	*0.19*	*0.20*	*0.18*	*0.15*	*0.08*	*0.07*	*0.12*	*0.23*
10Itr	1.0	*0.19*	*0.19*	*0.17*	*0.15*	*0.08*	*0.07*	*0.10*	*0.21*
Imax	1.0	*0.20*	*0.20*	*0.20*	*0.16*	*0.09*	*0.08*	*0.11*	*0.20*
Itr	0.5ind	*0.17*	*0.17*	*0.17*	*0.17*	*0.20*	*0.24*	*0.30*	*0.50*
10Itr	0.5ind	*0.22*	*0.22*	*0.13*	*0.18*	*0.11*	*0.11*	*0.14*	*0.25*
Imax	0.5ind	*0.20*	*0.20*	*0.18*	*0.14*	*0.08*	*0.09*	*0.15*	*0.25*
L3									
Itr	1.0	*0.15*	*0.18*	*0.19*	*0.17*	*0.11*	*0.09*	*0.10*	*0.17*
10Itr	1.0	*0.13*	*0.14*	*0.14*	*0.12*	*0.08*	*0.07*	*0.10*	*0.16*
Imax	1.0	*0.16*	*0.17*	*0.17*	*0.15*	*0.10*	*0.09*	*0.11*	*0.15*
Itr	0.5ind	*0.08*	*0.11*	*0.11*	*0.07*	*0.03*	*0.06*	*0.15*	*0.29*
10Itr	0.5ind	*0.13*	*0.15*	*0.16*	*0.14*	*0.09*	*0.08*	*0.12*	*0.18*
Imax	0.5ind	*0.09*	*0.13*	*0.12*	*0.10*	*0.01*	*0.06*	*0.12*	*0.19*

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).

5. Document Revision History

Issue	Date	Comments
1	14/06/2024	Initial Issue

END OF CERTIFICATE