

EU Type Examination Certificate Number: 0120/SGS0737

METRO PREPAID LIMITED

Unit 1, Tims Boat Yard, Timsway, Staines, TW18 3JY, United Kingdom

Instrument Identification: MET004; METROI

Instrument Traceable Number 0120/SGS0737

Single Phase, Active Import/ Export, Outdoor, Electricity Meter

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

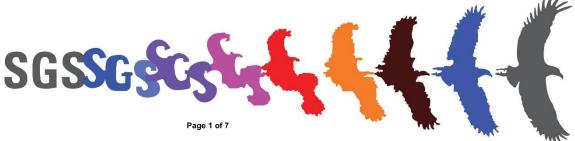
This certificate is valid until 11th April 2026 Issue 1

Certification is based on report number(s) SZES151000342001 dated 5th April 2016, SZES151000342001/iss2 dated 10th April 2017, SZES151000342001/iss3 dated 25th May 2018 SHES191202790901 dated 6th May 2020, SHES210901965601 dated 14th February 2022 EMA221646/1

EMA327249/1
Authorised Signature

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Issue Number: 1 Dated: 16th August 2024

1. Technical Data

Manufacturer	METRO PREPAID LIMITED				
Meter Type	MET004 ; METROI				
Voltage Rating (Un)	220-240V				
Current Rating (Imin – Iref (Imax))	0.05-5(80)A				
Frequency (Fn)	50/60Hz				
Active Accuracy Class (kWh)	A or B or C (kWh)				
Type of circuit	The state of the s				
Temperature Range	-40°C to +70°C				
Software/ Firmware Version No.	01.04				
Checksum	0x614BCAF5				
Identification Location	1.05 CDC CDC CDC CDC CDC CDC CDC CDC CDC CD				
BOM No's	Keyboard:26064696000001				
IP Rating	District Control of the Control of t				
Insulation Protective Class	Class II				
Mechanical Environment	19000000000000000000000000000000000000				
Electromagnetic Environment	100 0000000000000000000000000000000000				
LED Pulse Constant	1000imp/kWh				
Impulse Voltage Rating	15 to 10 10 10 10 10 10 10 10 10 10 10 10 10				
AC Voltage Rating	TOTAL CONTROL OF SERVICE SERVI				
Main Cover Sealing Type	Wire & Crimp				
Integrity of meter	Inaccessible without breaking seals				
Intended Location of the Meter	Outdoor				
Type of Register	95555 55855 5585 5585 5585 5585 5585 55				
Terminal Arrangement(s)	BS				



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2. Photograph of Meter and Sealing Plan



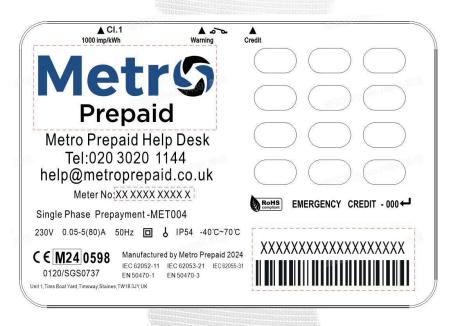


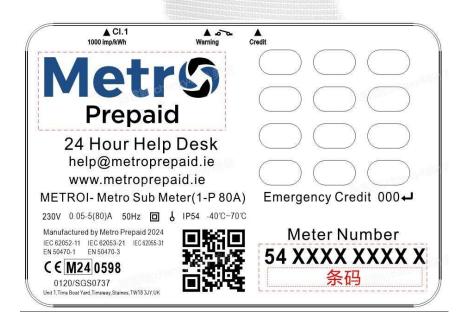


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3. Examples of Nameplates







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4. 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:-

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

where

 $\delta e(T, I, \cos \varphi) = Additional error due to variation of the temperature at the same load <math>\delta e(U, I, \cos \varphi) = Additional error due to variation of the voltage at the same load Additional error due to variation of the frequency at the same load$

Current	PF Cos	-40°C	-25°C	-10°C	5°C	30°C	40°C	55°C	70°C
Imin	1.0	0.66	0.41	0.23	0.17	0.09	0.12	0.16	0.19
ltr	1.0	0.64	0.40	0.26	0.13	0.07	0.09	0.17	0.19
10ltr	1.0	0.65	0.41	0.26	0.13	0.03	0.06	0.14	0.15
Imax	1.0	0.47	0.35	0.28	0.23	0.19	0.18	0.17	0.18
Itr	0.5ind 550	0.57	0.36	0.21	0.13	0.10	0.11	0.19	0.19
10ltr	0.5ind	0.64	0.37	0.24	0.13	0.06	0.08	0.08	0.15
Imax	0.5ind	0.60	0.51	0.46	0.43	0.40	0.39	0.37	0.38
Itr	0.8cap	0.56	0.37	0.22	0.11	0.07	0.10	0.16	0.16
10ltr	0.8cap	0.59	0.38	0.23	0.12	0.04	0.06	0.13	0.14
Imax	0.8cap	0.49	0.39	0.32	0.28	0.25	0.24	0.22	0.23



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5. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
MET004 METROI	1P2W, 220-240V, 0.05-5(80)A MBus with wired keypad 1P2W, 220-240V, 0.05-5(80)A MBus with wired keypad

Modifications to the meter(s) described according to approval No.0120/SGS0737 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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6. Document Revision History

Issue	Date	Comments	
1	16/08/2024	Initial Issue	262525000-2627 (15-5 m. 1295 60 50 50 50 50 50 50 50 50 50 50 50 50 50

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END OF CERTIFICATE