

EU Type Examination Certificate Number: 0120/SGS0453

LEGRAND SA

128 Avenue du Marechal de Latter de Tassigny 87045 LIMOGES Cedex France

> Instrument Identification: 4 120 82 & 4 120 83

Single Phase, Active Import/Export kWh, DIN Rail, Electricity Meter

Instrument Traceable Number 0120/SGS0453

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 3rd December 2029 Issue 1

Certification is based on report number(s) EMA271234/1 dated 7th November 2019 EMA276281

Authorised Signature

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EU-Type Examination Certificate Number:

0120/SGS0453

Issue Number: 1

Dated: 14th February 2020

1. Technical Data

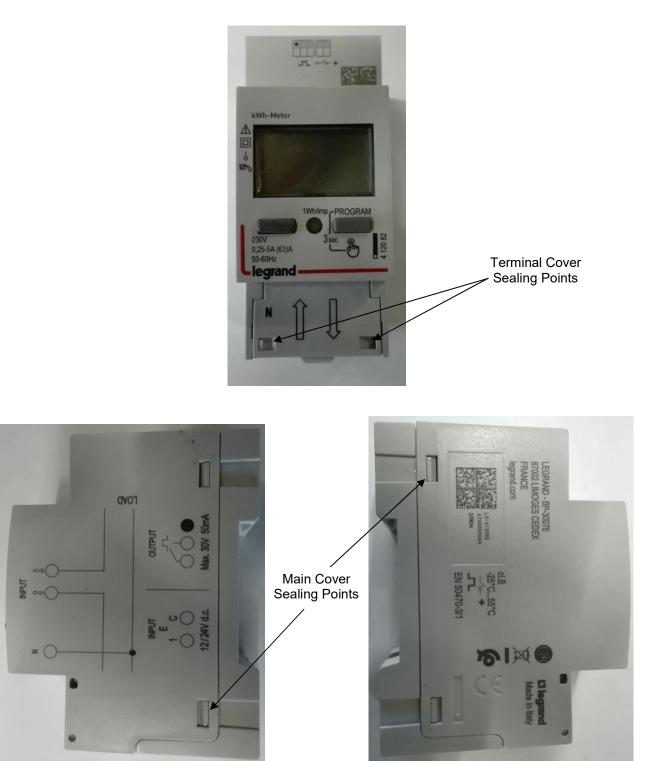
Manufacturer	LEGRAND SA
Motor Type	4 120 82 & 4 120 83
Voltage Rating (Un)	230V
Current Rating (Imin – Iref (Imax))	0.5-10(63)A
Frequency (Fn)	50Hz
Active Accuracy Class (kWh)	B (kWh)
Type of circuit	1p2w
Temperature Range	-25°C to +55°C
Software/ Firmware Version No	V1.1
CRC Checksum	58204
Identification Location	LCD
Bill Of Materials Number	B004235AD B004300AB B004429AC B004430AC
IP Rating	Meter to be installed in a suitable IP rated enclosure as described in installation manual
Insulation Protective Class	Class II
LED Pulse Constant	1Wh/imp
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Main Cover Sealing Type	2 x clips ultrasonically welded
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	Nameplate & Documentation



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2. Photograph of Meter and Sealing Plan

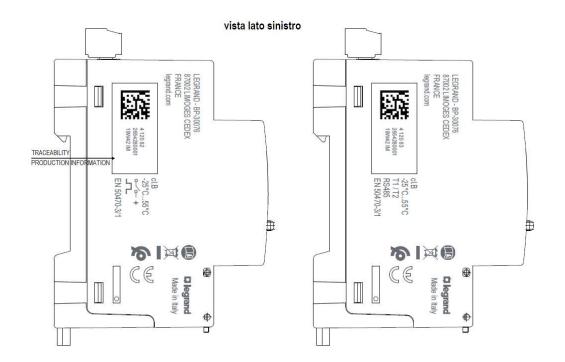




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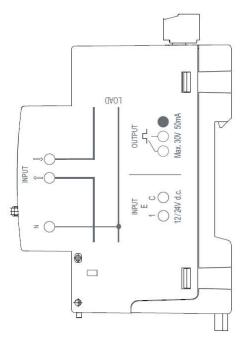
3. Examples of Nameplates

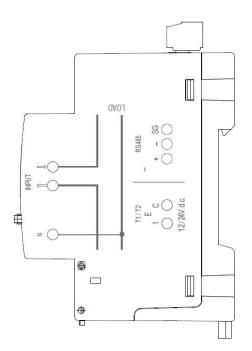


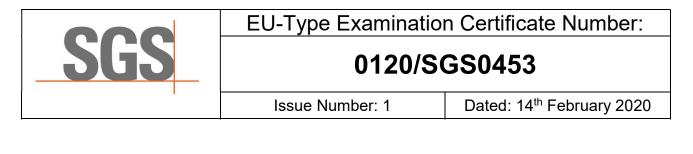
PULSE

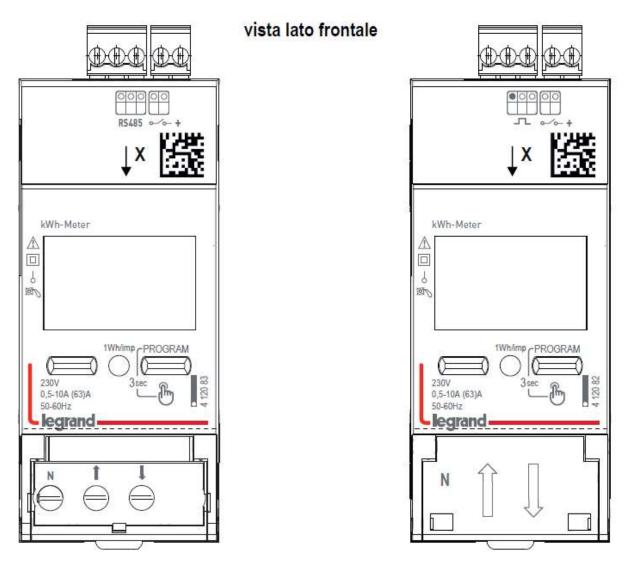
RS485

vista lato destro

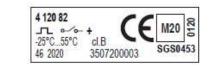








Targhetta prodotto MID vista da sopra X







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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:-

δ e (*T*, *U*, *f*) = √ (δ e² (*T*, *I*, cosφ), δ e² (*U*, *I*, cosφ), δ e² (*f*, *I*, cosφ))

where

$\delta \mathbf{e}(T, I, \cos \varphi)$	=	Additional error due to variation of the temperature at the same load
$\delta \mathbf{e}(U, I, \cos \varphi)$	=	Additional error due to variation of the voltage at the same load
$\delta \mathbf{e}(f, I, \cos \varphi)$	=	Additional error due to variation of the frequency at the same load

		Influenc	e Factors	for Tempe	rature, Vo	ltage & Fre	equency
Current	PF Cos	-25°C	-10°C	5°C	30°C	40°C	55°C
Imin	1.0	0.65	0.24	0.18	0.12	0.15	0.18
Itr	1.0	0.51	0.21	0.05	0.15	0.20	0.21
10ltr	1.0	0.50	0.25	0.03	0.15	0.21	0.21
Imax	1.0	0.36	0.18	0.09	0.10	0.11	0.10
Itr	0.5ind	0.17	0.20	0.26	0.27	0.27	0.24
10ltr	0.5ind	0.10	0.17	0.24	0.25	0.24	0.12
Imax	0.5ind	0.43	0.45	0.49	0.41	0.33	0.33
Itr	0.8cap	0.93	0.58	0.30	0.07	0.08	0.12
10ltr	0.8cap	0.76	0.43	0.17	0.11	0.18	0.24
Imax	0.8cap	0.63	0.37	0.20	0.15	0.15	0.16



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5. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
4 120 82	Single Phase, 230V, 10(63)A, pulse output
4 120 83	Single Phase 230V, 10(63)A, dual tariff, RS485 Modbus communication

Modifications to the meter(s) described according to approval No.**0120/SGS0453** 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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Dated: 14th February 2020

6. Document Revision History

Issue	Date	Comments
1	14/02/2020	Initial Issue

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END OF CERTIFICATE