EU Type Examination Certificate Number: **0120/ SGS0269**

POLIER INGENIERIE
11 Square Marcel Fourier
92130
Issy les Moulineaux
France

Instrument Identification:
MM32MM
Instrument Traceable Number
0120/ SGS0269

Single phase, Active Import (kWh), Electricity Meter, Mechanical Display

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 6th June 2026
Issue 1

Certification is based on report number(s) SHES151200784001 dated 3rd June 2016
EMA224514
EMA232196

Authorised Signature

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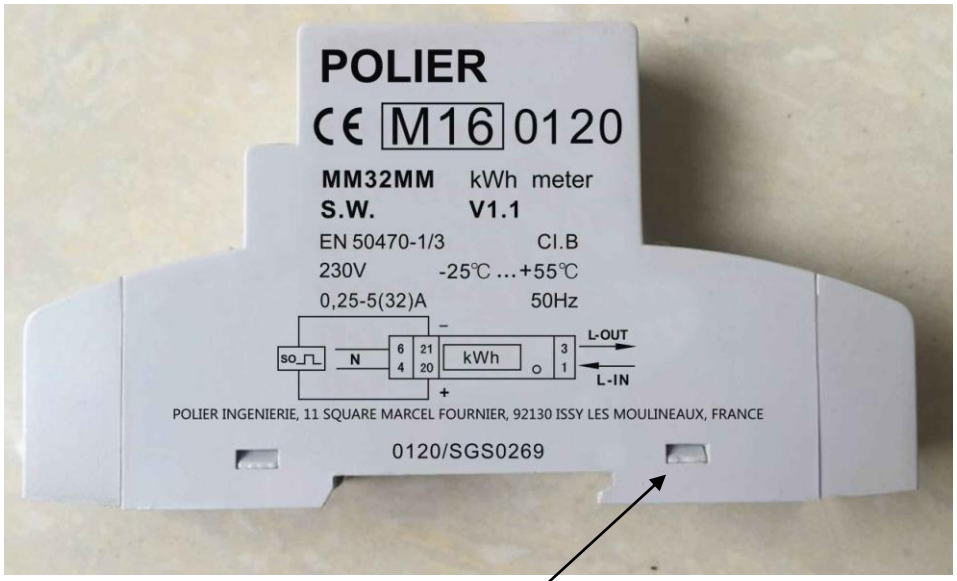
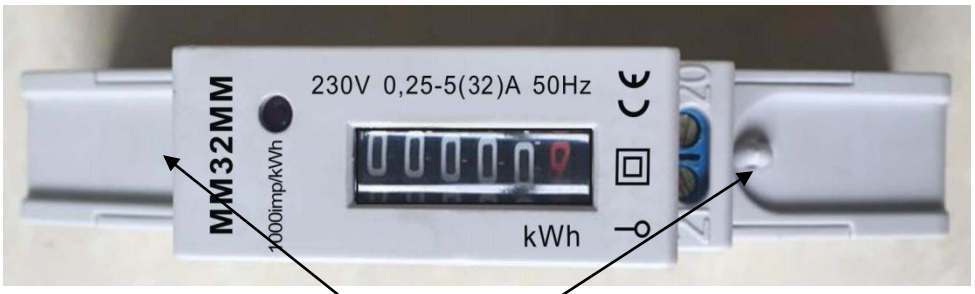
1. Technical Data

Manufacturer	**POLIER INGENIERIE**
Meter Type	MM32MM
Voltage Rating *(Un)*	230V
Current Rating *(Imin – Iref (Imax))*	0.25-5(30)A, 0.25-5(32)A, 0.25-5(40)A, 0.25-5(45)A, 0.25-5(50)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's **Identification Location**	F+R Version(2000imp/kWh):V1.0 F+R Version(1000imp/kWh):V1.1 F+R Version(100imp/kWh): V1.2 Nameplate
Bill Of Materials Numbers	2000imp/kWh, V1.0, F+R: D111042-02 1000imp/kWh, V1.1, F+R: D111042; 100imp/kWh, V1.2, F+R : D111042-01;
IP Rating	IP51
Insulation Protective Class	Class II
LED Pulse Constant (software dependant)	2000imp/kWh, 1000imp/kWh, 100imp/kWh
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Utility Cover Sealing Type	Wire & Crimp
Integrity of meter	Holographic tape
Intended Location of the Meter	Indoor
Type of Register	Mechanical
Terminal Arrangement(s)	DIN
Location of Manufacture Address	Meter case and Operating instructions

2. Photograph of Meter and Sealing Plan



Meter cover sealing
Hologram Paper Seal



Utility Seals

4. Calculation of Composite Error/MPE

Current	**PF Cos**		-25°C	-10°C	5°C	30°C	40°C	55°C	
Imin	1.0		***0.64***	***0.57***	***0.48***	***0.29***	***0.34***	***0.40***	
Itr	1.0		***0.57***	***0.39***	***0.28***	***0.20***	***0.25***	***0.37***	
10Itr	1.0		***0.49***	***0.36***	***0.22***	***0.14***	***0.24***	***0.38***	
Imax	1.0		***0.49***	***0.40***	***0.29***	***0.14***	***0.18***	***0.29***	
Itr	0.5ind		***0.48***	***0.44***	***0.43***	***0.43***	***0.50***	***0.57***	
10Itr	0.5ind		***0.34***	***0.26***	***0.21***	***0.26***	***0.32***	***0.45***	
Imax	0.5ind		***0.41***	***0.34***	***0.28***	***0.19***	***0.19***	***0.25***	
Itr	0.8cap		***0.69***	***0.55***	***0.39***	***0.23***	***0.27***	***0.38***	
10Itr	0.8cap		***0.58***	***0.45***	***0.27***	***0.13***	***0.22***	***0.38***	
Imax	0.8cap		***0.60***	***0.50***	***0.35***	***0.13***	***0.15***	***0.26***	

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The table above 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

5. Annex of Variants

Product Variant Identification Details:

Type Designation		Description of meter
MM32MM	0.25-5(30)A 0.25-5(32)A 0.25-5(40)A 0.25-5(45)A 0.25-5(50)A	Hardware the same for all currents and impulse constants The only differences are in software providing the following impulse options. 100 imp/kWh, 1000 imp/kWh, or 2000 imp/kWh.

Modifications to the meter(s) described according to approval No.**0120/ SGS0269** must be notified to the issuing body to confirm the meter(s) continuing compliance to the relevant pattern approval standard(s).

6. Document Revision History

Issue	Date	Comments
1	23/11/2016	Initial Issue