

EU Type Examination Certificate Number: 0120/SGS0422

Mylight Systems

290 Rue Ferdinand Perrier 69800 Saint Priest France

Instrument Identification:

MC3D01RM

Polyphase, Active Import/Export (kWh), Electricity Meter

Instrument Traceable Number 0120/SGS0422

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 20th April 2026 Issue 1

Certification is based on report number(s) SHES151000648101 dated 19th April 2016 EMA268304

Authorised Signature

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DU_CST-ME-002 Rev 2 EU Type Examination Cert.



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1. Technical Data

Manufacturer	Mylight Systems		
Meter Type	MC3D01RM		
Voltage Rating (Un)	3 x 230/400V		
Current Rating (Imin – Iref (Imax))	0,5-10(100)A & 0.5-10(80)A		
Frequency (Fn)	50Hz		
Active Accuracy Class (kWh)	B (kWh)		
Type of circuit	3p4w		
Temperature Range	-25°C to +55°C		
Software/ Firmware Version No	V1.2		
Identification Location	LCD		
Bill Of Materials Number	V1.2		
IP Rating	IP51		
Insulation Protective Class	Class II		
LED Pulse Constant	1000 imp/kWh & 100imp/kWh		
Impulse Voltage Rating	6kV		
AC Voltage Rating	4kV		
Main Cover Sealing Type	Wire & Crimp on terminal cover. Meter case sealed with screws		
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		



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2. Photograph of Meter and Sealing Plan

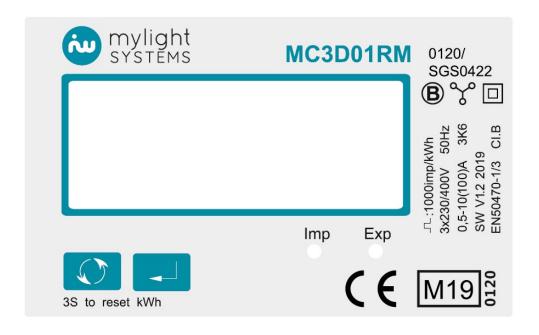




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3. Example of Nameplate





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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:-

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

where

 $\begin{array}{lll} \delta \mathrm{e}(T,I,\cos \varphi) & = & \quad \text{Additional error due to variation of the temperature at the same load} \\ \delta \mathrm{e}(U,I,\cos \varphi) & = & \quad \text{Additional error due to variation of the voltage at the same load} \\ \delta \mathrm{e}(f,I,\cos \varphi) & = & \quad \text{Additional error due to variation of the frequency at the same load} \\ \end{array}$



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		Influen	ce Factors	for Tempe	rature. Fre	quency & \	/oltage
Current	PF Cos	-25°C	-10°C	5°C	30°C	40°C	55°C
Imin	1.0	0.32	0.24	0.15	0.12	0.15	0.26
Itr	1.0	0.34	0.24	0.15	0.10	0.15	0.30
10ltr	1.0	0.37	0.28	0.17	0.10	0.15	0.28
Imax	1.0	0.30	0.24	0.19	0.15	0.17	0.24
Itr	0.5ind	0.51	0.45	0.37	0.30	0.30	0.36
10ltr	0.5ind	0.40	0.32	0.25	0.18	0.22	0.32
Imax	0.5ind	0.66	0.62	0.58	0.52	0.51	0.50
Itr	0.8cap	0.44	0.34	0.26	0.16	0.17	0.24
10ltr	0.8cap	0.37	0.25	0.15	0.09	0.15	0.27
lmax	0.8cap	0.48	0.42	0.38	0.33	0.31	0.32
L1							
Itr	1.0	0.37	0.33	0.29	0.26	0.28	0.38
10ltr	1.0	0.30	0.21	0.15	0.10	0.17	0.29
lmax	1.0	0.23	0.18	0.17	0.11	0.14	0.23
Itr	0.5ind	0.44	0.38	0.35	0.34	0.38	0.44
10ltr	0.5ind	0.31	0.24	0.22	0.19	0.26	0.38
lmax	0.5ind	0.29	0.26	0.25	0.22	0.24	0.34
L2							
Itr	1.0	0.61	0.61	0.61	0.61	0.61	0.61
10ltr	1.0	0.19	0.19	0.19	0.19	0.19	0.20
lmax	1.0	0.16	0.14	0.12	0.12	0.12	0.12
Itr	0.5ind	0.76	0.77	0.77	0.76	0.77	0.77
10ltr	0.5ind	0.31	0.30	0.30	0.30	0.31	0.32
lmax	0.5ind	0.30	0.28	0.27	0.27	0.27	0.27
L3							
Itr	1.0	0.80	0.52	0.38	0.27	0.37	0.54
10ltr	1.0	0.86	0.64	0.50	0.42	0.48	0.63
Imax	1.0	1.09	0.97	0.90	0.87	0.89	0.95
Itr	0.5ind	1.04	0.92	0.82	0.79	0.82	0.92
10ltr	0.5ind	1.03	0.88	0.78	0.74	0.78	0.88
Imax	0.5ind	1.02	0.92	0.92	0.83	0.87	0.94



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5. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
MC3D01RM	3x230/400V, 0.5-10(100)A, 0.5-10(80)A, 1000imp/kWh, shows only total active energy, without resettable kWh

Modifications to the meter(s) described according to approval No.0120/SGS0422 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	12/07/2019	Initial Issue

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