

1. Technical Data

Manufacturer	EM-Lite Ltd
Meter Type(s)	ECA1.* & EM*1.*
Voltage Rating (Un)	220-240V
Current Rating (Imin – Iref (Imax))	0,25-5(100)A 0,5-10(100)A 0,75-15(100)A 1-20(100)A
Frequency (Fn)	50Hz
Active Accuracy Class (kWh)	A or B (kWh)
Type of circuit	1p2w
Temperature Range	-40°C to +70°C
Software/ Firmware Version No(s)	See list overleaf
Identification Location	LCD
Bill Of Materials Number(s)	See list overleaf
IP Rating	IP52
Insulation Protective Class	Class II
LED Pulse Constant	1000 imp/ kWh
Impulse Voltage Rating	8kV
AC Voltage Rating	4kV
Main Cover Sealing Type	Wire & Crimp x 1
Integrity of meter	Inaccessible without breaking seals
Intended Location of the Meter	Indoor
Type of Register	LCD

EC-Type Examinatio	n Certificate Number:
0120/ SGS0083	
Issue Number: 8	Dated: 26 th January 2015

Bill of Materials

Meter Variant ECA1. z ECA1. y	BOM Number ECA1-4002-01 ECA1-4001-03
EMA1.z	EMA1-4002-01
EMA1.az	EMA1-4003-05
EMA1.y	EMA1-4001-05
EMA1.ay	EMA1-4004-01
EMA1.x	EMA1-4002-01
EMA1.w	EMA1-4001-05
EMB1.z	EMB1-4002-01
EMB1.y	EMB1-4001-05
EMB1.ay	EMB1-4003-02
EMB1.x	EMB1-4002-01
EMB1.w	EMB1-4001-05
EMC1.z	EMC1-4002-01
EMC1.az	EMC1-4003-01
EMC1.y	EMC1-4001-04
EMC1.x	EMC1-4002-01
EMC1.w	EMC1-4001-04

Software Version Number(s)

EMA1, EMB1, ECA1

V3.00-1

V3.02-0

V3.03-2

V3.04-0 Checksum 44051

EMA1.y or .z, EMB1.y or .z

V3.10-0 Checksum 39352

V3.11-1 Checksum 16259

EMC1.*

V0.00-3

V1.00-0

V1.01-3

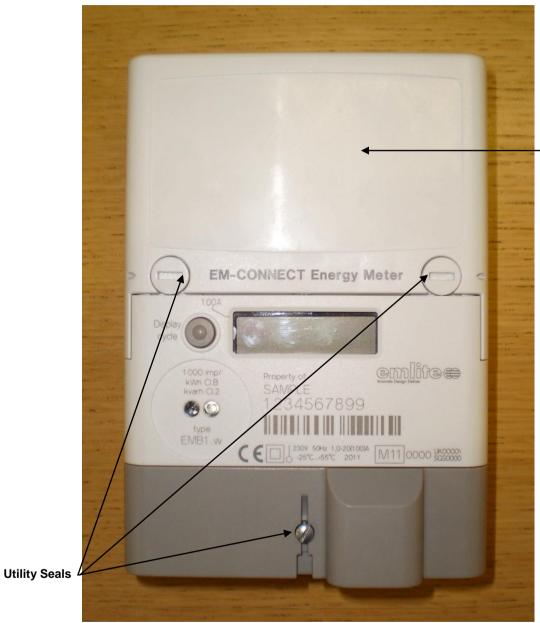
V1.02-0 Checksum 10305

V2.00.1 Checksum 49889

V3.00.0 Checksum 18714

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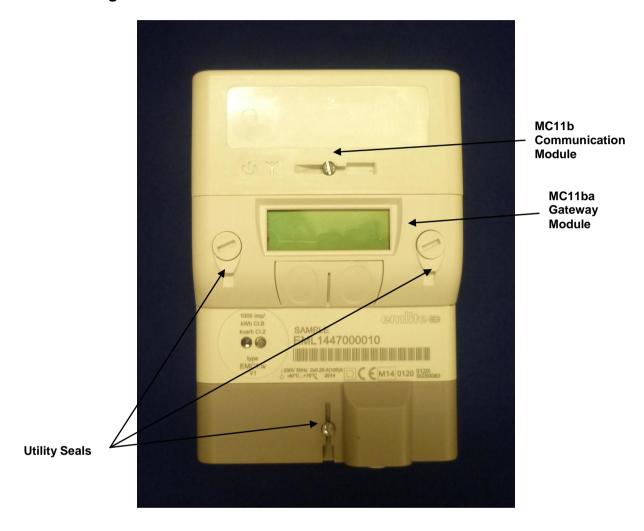
2. Photograph of Meter EMB1 and Sealing Plan



Main Cover Seal Beneath Cover

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Photographs of Meter EMC1w with MC11ba and MC11b Modules Fitted and Sealing Plan



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4. Annex of Variants

Product Variant Identification Details:

	Type Designation	Description of meter
ECA1.z	4 terminal bas no breaker	ic variant, no auxiliary connections, no modular comms,
ECA1.y	4 terminal with	auxiliary relay, no modular comms, no breaker
EMA1.z	4 terminal bas	ic variant, no auxiliary connections
EMA1.az		ic variant, no auxiliary connections, no breaker
EMA1.y		a auxiliary relay
EMA1.ay		auxiliary relay, no breaker
EMA1.x		external hub connections
EMA1.w		auxiliary relay and external hub connections
EMB1.z	5 terminal (10	OA Heating Control) basic variant, no auxiliary connections
EMB1.y	5 terminal with	auxiliary relay
EMB1.ay	5 terminal (10	DA Heating Control) with auxiliary relay, no breaker
EMB1.x	5 terminal with	external hub connections
EMB1.w	5 terminal with	auxiliary relay and external hub connections
EMC1.z	twin element b	pasic variant, no auxiliary connections
EMC1.az		basic variant, no auxiliary connections, no breakers
EMC1.y		vith auxiliary relay
EMC1.x		vith external hub connections
EMC1.w	twin element v	vith auxiliary relay and external hub connections
EMC1.w		vith auxiliary relay and external hub connections,
MC11b + MC11		and gateway for use with all variants

Modifications to the meter(s) described according to approval No.0120/ SGS0083 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	24/05/2011	Initial Issue
2	12/08/2011	Addition approval of EMC1.* and ECA1.* variants
3	17/01/2012	Major Firmware update to EMC1 variants. Minor Firmware updates to ECA1, EMA1 and EMB1 variants
4	30/10/2012	New EMB1.ay variant added. Also, minor firmware updates to 3.10.0 on EMA1.* & EMB1.* variants for use with coin mech.
5	11/10/2013	Minor Firmware updates to ECA1, EMA1, EMB1 to V3.04.0 with Checksum 44051, EMA1.z, EMA1.y, EMB1.z, EMB1.y to V3.11.1 with Checksum 16259
6	18/09/2014	Minor software updates for EMC1.* variants V2.00.1 & V3.00.0 with checksums
7	26/11/2014	Updated BOM list & additional variant EMC1.az added
8	26/01/2015	Option for smart module and gateway modules for all variants