



EC Type Examination Certificate Number: **0120/SGS0116**

# Guangdong Revenco Enterprises Co., Ltd

368 Guangzhou Avenue South  
Guangzhou  
Guangdong  
China

Instrument Identification:  
**S2-M**

Instrument Traceable Number  
**0120/SGS0116**

Single Phase, Credit, Active Import/ Export, Indoor, Electricity Meter

has been assessed and certified as meeting the requirements of

## **EC Directive 2004/22/EC** **Measuring Instruments Annex 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 MI-003 of EC Directive 2004/22/EC

This certificate must be used in conjunction with a certificate covering the product verification as required in Annex D or Annex F.

This certificate is valid for 10 years from 30<sup>th</sup> May 2013 to 29<sup>th</sup> May 2023  
Issue 1

Certification is based on report number(s) SHES121100313001 dated 16<sup>th</sup> May 2013

Authorised Signature

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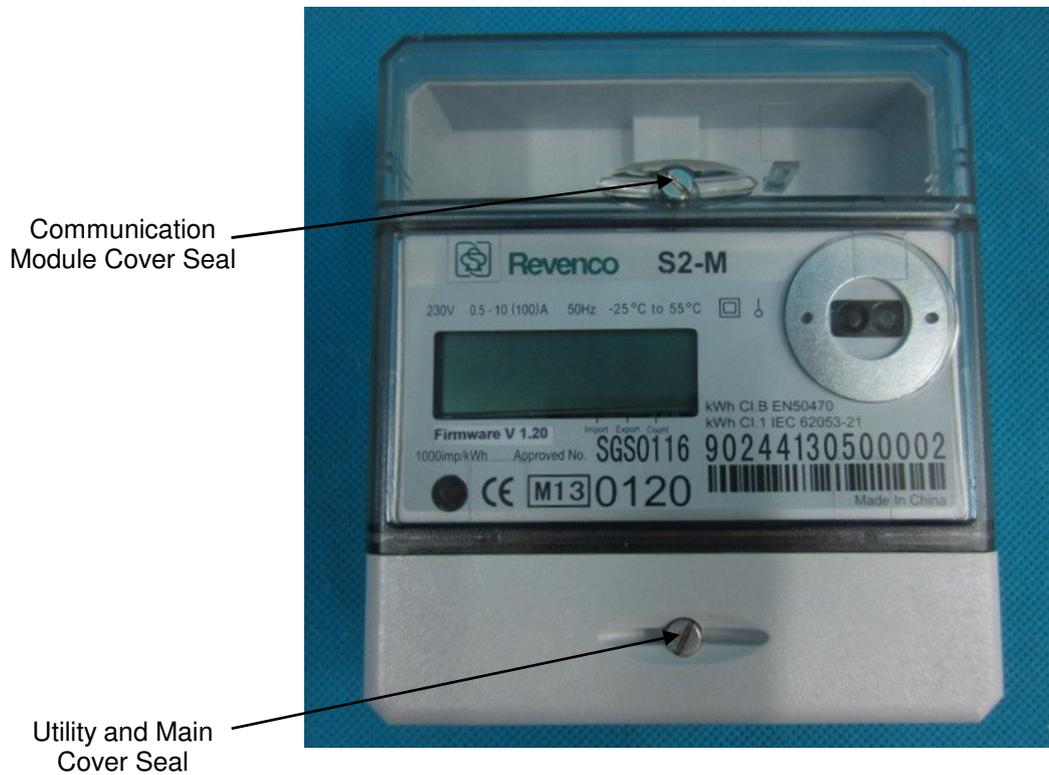
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	Issue Number: 1	Dated: 30 <sup>th</sup> May 2013

## 1. Technical Data

<b>Manufacturer</b>	Guangdong Revenco Enterprises Co., Ltd.
<b>Meter Type</b>	S2-M
<b>Voltage Rating (<math>U_n</math>)</b>	230V
<b>Current Rating (<math>I_{min} - I_{ref} (I_{max})</math>)</b>	0.5-10(100)A
<b>Frequency (<math>F_n</math>)</b>	50Hz
<b>Active Accuracy Class (kWh)</b>	A or B (kWh)
<b>Type of circuit</b>	1p2w
<b>Temperature Range</b>	-25°C to +55°C
<b>Software Version No.</b>	V1.20
<b>Identification Location</b>	Nameplate
<b>Bill Of Materials No.'s</b>	S2-M BOM V15 Rev 1
<b>IP Rating</b>	IP51
<b>Insulation Protective Class</b>	Class II
<b>LED Pulse Constant</b>	1000 imp/ kWh
<b>Impulse Voltage Rating</b>	6kV
<b>AC Voltage Rating</b>	4kV
<b>Main Cover Sealing Type</b>	1 x Wire & Crimp
<b>Integrity of meter</b>	Inaccessible without breaking seals
<b>Intended Location of the Meter</b>	Indoor
<b>Type of Register</b>	LCD
<b>Terminal Arrangement(s)</b>	BS

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## 2. Photograph of Meter and Sealing Plan



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### 3. Influence factors for temperature, frequency and voltage

Influence Factors for temperature, frequency and voltage							
Current	PF Cos	-25 °C	-10 °C	5 °C	30 °C	40 °C	55 °C
I <sub>min</sub>	1.0	0.62	0.46	0.22	0.12	0.18	0.51
I <sub>tr</sub>	1.0	0.50	0.36	0.18	0.13	0.18	0.44
10I <sub>tr</sub>	1.0	0.43	0.30	0.16	0.11	0.16	0.31
I <sub>max</sub>	1.0	0.35	0.24	0.12	0.08	0.14	0.28
I <sub>tr</sub>	0.5ind	0.59	0.42	0.17	0.13	0.21	0.45
10I <sub>tr</sub>	0.5ind	0.43	0.28	0.13	0.07	0.15	0.32
I <sub>max</sub>	0.5ind	0.35	0.22	0.09	0.07	0.15	0.30
I <sub>tr</sub>	0.8cap	0.55	0.39	0.21	0.15	0.20	0.45
10I <sub>tr</sub>	0.8cap	0.41	0.28	0.15	0.13	0.17	0.31
I <sub>max</sub>	0.8cap	0.33	0.21	0.10	0.11	0.16	0.29

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The table below presents the sum of the square values per load, determined via the following formula:-

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

where

$\delta e(T, I, \cos\phi) =$  Additional error due to variation of the temperature at the same load

$\delta e(U, I, \cos\phi) =$  Additional error due to variation of the voltage at the same load

$\delta e(f, I, \cos\phi) =$  Additional error due to variation of the frequency at the same load

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#### 4. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
S2-M 0,5-10(100)A - Single Phase, Active Import/Export, Electricity Meter	

Modifications to the meter(s) described according to approval No. **0120/ SGS0116** 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	30/05/2013	Initial Issue