EC Type Examination Certificate Number: **UK/ 0120/ SGS0041**

Elster Méréstechnika Kft.

Határ út 3. Pécel
Hungary

Instrument Identification:
AS230
Single Phase, Direct Connected, Credit, Import/Export,
Active/Reactive, Multi Rate, Electricity Meter
Instrument Traceable Number
UK/ 0120/ SGS0041

has been assessed and certified as meeting the requirements of

EC Directive 2004/22/EC

on 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 is to 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 24th October 2008 until 23rd October 2018
Issue 1

Certification is based on report number
EMA121661 dated 24th October 2008
EMA125056 dated 27th March 2009
EMA139902 dated 21st September 2010
Notified Body Number 0120

$$CE$$
0120

Authorised Signature
Mr J Weaver

Notified Body
SGS United Kingdom Ltd, 202B Worle Parkway, Weston-super-Mare, BS22 6WA   UK
t +44 (0)1934 522917 **f** +44 (0)1934 522137   www.sgs.com
Contact Address
SGS United Kingdom Ltd, Unit 10, South Industrial Estate, Bowburn, Durham, DH6 5AD   UK
t +44 (0)191 377 2000 **f** +44 (0)191 377 2020   www.sgs.com

EC Type Examination Cert.

Approval Annex for EC Type Examination Cert. No. UK/ 0120/ SGS0041

Manufacturer	: Elster Méréstechnika Kft.
Type of Meter(s)	: AS230
Description of Meter	: Single Phase, Direct Connected, Credit, Import/Export, Active/Reactive, Multi Rate, Electricity Meter.

Accuracy Class (es)	: A or B(kWh)	**Software Version No's.** :	2-01331-E 2-01331-F 2-01331-G 2-01331-J 2-01331-K 2-01331-L
		Location	: Nameplate
Firmware Version No's : 2-01331-E 2-01331-F 2-01331-G 2-01331-J 2-01331-K 2-01331-L		**Bill Of Materials No.** :	
			BS Terminals v1.4 **DIN Terminals** v1.0
Location	: Nameplate		
Meter Location	: Indoor	**Sealing Type** **Location**	: Wire & Steel Crimp : Under Terminal Cover
Integrity of Meter	Inaccessible Without : Breaking Seals	**Temperature Range**	: -25°C to 55°C
Type of Circuit(s)	: Single Phase Two Wire	**Frequency**	: 50Hz
Current Range(s) (A) : 0,25-5(100)A (Any multiples of Iref up to 20A)		**Voltage Range(s) (V)**	: 220-240V

SGS

External View

Internal View

Terminals

Product Variant Identification Details:

example: S L 1 A B N B B(B) N N N N B B - A N

PRODUCT/TERMINATION	Code
Single Phase, BS terminal arrangement (L-N-N-L), Multi Rate with Load Profile	S L
Single Phase, DIN terminal arrangement (L-L-N-N), Multi Rate with Load Profile	S N

SERVICE TYPE	Code
1-phase 2-wire	1

CURRENT RANGE	Code
Direct Connected 20A – * (* is any multiple of Ib up to 100A maximum - see note 1)	A
Direct Connected 10A – * (* is any multiple of Ib up to 100A maximum - see note 1)	B
Direct Connected 5A – * (* is any multiple of Ib up to 100A maximum - see note 1)	C

VOLTAGE/ ACCURACY CLASS	Code
220 – 240V 50 Hz Cl.1 kWh, Cl.2 kvarh (IEC 62053-21, 23 see note 2) Cl.B kWh,(EN 50470-3)	B
220 – 240V 50 Hz Cl.2 kWh, Cl.3 kvarh (IEC 62053-21, 23 see note 2) Cl.A kWh,(EN 50470-3)	C

CONTACTOR	Code
No contactor	N
With contactor	B

LCD/BACKLIGHT	Code
"English" LCD option - no kvarh LED, no backlight	B
"English" LCD option - with kvarh LED, no backlight	C
"English" LCD option - no kvarh LED, with backlight	D
"Chevrons" LCD option - no kvarh LED, no backlight	F
"Chevrons" LCD option - with kvarh LED, no backlight	G
"Chevrons" LCD option - no kvarh LED, with backlight	H

BATTERY OPTIONS – see note 4	Code
Real Time Clock battery support	B

AUXILIARY OUTPUT – see note 4	Code
No SO or relay output	N
SO output (as kWh LED)	B
100mA/230V relay output (configurable)	F
100mA/230V relay output (as kWh LED)	G

MAIN COVER TAMPER – see note 4	Code
No main cover tamper	N
With main cover tamper	B

TERMINAL COVER TAMPER	Code
No terminal cover tamper	N
With terminal cover tamper	B

MAGNETIC FIELD SENSOR	Code
No magnetic field sensor	N
With Magnetic Field sensor	B

OPERATIONAL MODES	Code
Import kWh only (plus reverse active energy)	B
Import kWh, import (Q1 + Q2) kvarh plus reverse active energy	C
Import/Export kWh	D
Import/Export kWh, import (Q1 + Q2) and export (Q3 + Q4) kvarh	F
Import/Export kWh, import (Q1 + Q2) and export (Q3 + Q4) kvarh and kVAh.	G

OTHER OPTIONS	Code
Short Terminal Cover	B
Extended Terminal cover	C
Extended Terminal cover with cut-out	D

VERSION	Code
Original (superseded by revision K)	- A
Load Profile data packet ID included (From revision suffix 'K')	- B

REVISION SUFFIX	Code
Firmware 2-01331-E (superseded by revision F)	E
Firmware 2-01331-F (selected customers only)	F
Firmware 2-01331-G (superseded by revision J)	G
Firmware 2-01331-J (superseded by revision K)	J
Firmware 2-01331-K (superseded by revision L)	K
Firmware 2-01331-L	L

Modifications to the meter(s) described according to approval No.**UK/ 0120/ SGS0041** must be notified to the issuing body to confirm the meter(s) continuing compliance to the relevant pattern approval standard(s).