

EU Type Examination Certificate Number: 0120/SGS0574

B+G E-Tech GmbH

Franz-Mehring-Str. 36 01979 Lauchhammer Germany

Instrument Identification:

WS60-1942, WS80-1942, WS100-1942, WS60-1943, WS80-1943, WS100-1943, WS60-19L3, WS100-19L3

Single phase, Active Import/Export (kWh), Electricity Meter

Instrument Traceable Number 0120/SGS0574

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 from 6th September 2022 until 22nd May 2032 Issue 1

Certification is based on report number(s) SHES220300395901dated 19th May 2022 EMA304043/1/TR50579 dated 18th May 2022

EMA304043/1

EMA307394/1

Authorised Signature

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Issue Number: 1 Dated: 12th September 2022

1. Technical Data

B+G E-Tech GmbH			
WS60-1942, WS80-1942, WS100-1942 WS60-1943, WS80-1943, WS100-1943 WS60-19L3, WS80-19L3, WS100-19L3			
SSEA SAN AND AND AND AND AND AND AND AND AND A			
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, 0.25-5(60)A 0.25-5(80)A, 0.25-5(100)A			
1000-000-000-000-000-000-000-000-000-00			
B (kWh)			
1986 1			
-25°C to +70°C			
WS60-1942, WS80-1942, WS100-1942: V101 CRC: 5A8E WS60-1943, WS80-1943, WS100-1943: V101 CRC: B6C9 WS60-19L3, WS80-19L3, WS100-19L3: V101 CRC: 6B8D			
LCD & Nameplate			
WS60-1942, WS80-1942, WS100-1942: D118089-BOM V1.0 WS60-1943, WS80-1943, WS100-1943: D118090-BOM V1.00 WS60-19L3, WS80-19L3, WS100-19L3: D118091 BOM V1.00			
DESCRIPTION OF THE PROPERTY OF			
SEGISTION ALL SANSING SIGNING PROPERTIES RESEGISTIONS OF THE PROPERTY OF THE P			
1000imp/kWh			
SOB			

Main cover clipped in place and sealed with tamper proof sealing tape			
Inaccessible without breaking seals			
Indoor			
LCD			
DIN			
Side of the meter and associated documentation			



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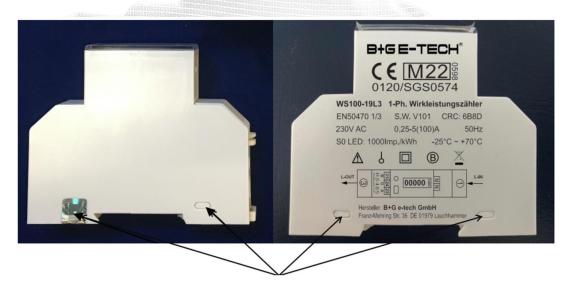
Issue Number: 1

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2. Photograph of Meter and Sealing Plan

Terminal Cover sealing points





Main cover sealing points

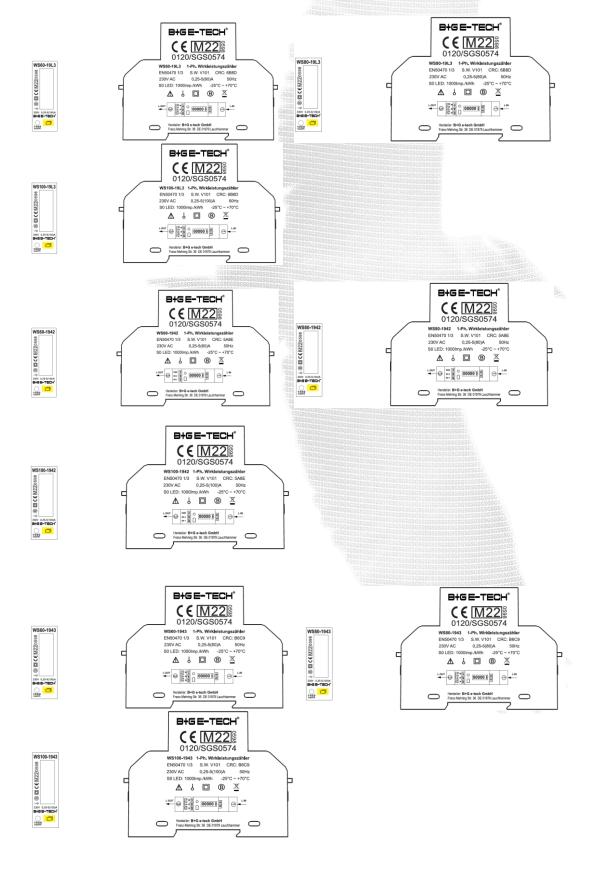
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3. Examples of Nameplates





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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

 $\delta e(T, I, \cos \varphi) = Additional error due to variation of the temperature at the same load <math>\delta e(U, I, \cos \varphi) = Additional error due to variation of the voltage at the same load Additional error due to variation of the frequency at the same load$

		Inf	luence Fac	tors for T	emperatur	e, Voltage	& Frequer	псу
Current	PF Cos	-25°C	-10°C	5°C	30°C	40°C	55°C	70°C
Imin	1.0	0.94	0.73	0.45	0.15	0.34	0.45	0.72
Itr	SUSGESS OF THE PROPERTY OF THE	0.87	0.61	0.35	0.20	0.31	0.48	0.76
10ltr	1.0	0.89	0.64	0.37	0.24	0.23	0.47	0.72
Imax	1.0	1.38	1.20	1.01	0.71	0.72	0.70	0.76
ltr	0.5ind	0.89	0.75	0.48	0.36	0.32	0.48	0.69
10ltr	0.5ind	0.71	0.65	0.37	0.31	0.30	0.51	0.75
Imax	0.5ind	1.38	1.35	1.14	0.85	0.86	0.82	0.84
ltr	0.8cap	0.95	0.74	0.52	0.25	0.28	0.49	0.73
10ltr	0.8cap	0.92	0.69	0.45	0.19	0.25	0.47	0.73
Imax	0.8cap	1.68	1.52	1.36	1.08	1.06	1.01	1.01

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5. Annex of Variants

Product Variant Identification Details:

Model No.	WS60-19L3, WS80-19L3, WS100-19L3	WS60-1943, WS80-1943, WS100-1943	WS60-1942, WS80-1942, WS100-1942			
Voltage range	9252828282828282828282828282828282828282	19835000000000000000000000000000000000000				
Current range	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, 0.25-5(60)A, 0.25-5(80)A, 0.25-5(100)A					
Frequency range	199466 200 200 200 200 200 200 200 200 200 2					
RS485	365656365565656565656565656565656565656	\$365653350555656565555555555555555555555				
Battery	GSGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	13650508182650505656565656565656565656565656565656				
Tariff	GSGBSGSGSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	\$3850565656565656565656565 \$3850566665656565656565656565 \$26505765656				
SO	G2082626262626262626262626262626262626262	SSESSESSESSESSESSESSESSESSESSESSESSESSE	•			

Modifications to the meter(s)	described according to	approval No.0120/SGS057	4 must be i	notified to the	issuing bod	y
to confirm the meter(s) contir	nuing compliance to the	relevant pattern approval sta	andard(s).			
	SG	SGSGSGSGSGSGSGSGSGSGSGSGSGSG				

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6. Document Revision History

Issue	Date	Comments	
1	12/09/2022	Initial Issue	AUGG CO C 5 (1940 MS SATIS AN EXPANSANCE CORRESPONDED COS

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END OF CERTIFICATE