

EU Type Examination Certificate Number: 0120/SGS0463

# **B+G E-Tech GmbH**

Franz-Mehring Str.36 01979 Lauchhammer Germany

Instrument Identification:

DRT430A

Polyphase, active Import, indoor, Electricity Meter

Instrument Traceable Number 0120/SGS0463

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 19<sup>th</sup> July 2026 Issue 1

Certification is based on report number(s): NMi-15200659-03 2016F00-30-000114 2016F00-30-000115 EMA280386

Authorised Signature

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EU Type Examination Cert.

SGSPAPER 20295009





# 0120/SGS0463

Issue Number: 1

Dated: 1st July 2020

#### 1. Technical Data

Manufacturer	B+G E-Tech GmbH
Meter Type	DPT430A
Voltage Rating (Un)	3 x 230/400V
Current Rating (Imin – Iref (Imax))	0,25-5(80)A 0,5-10(100)A
Frequency (Fn)	50Hz
Active Accuracy Class (kWh)	A or B(kWh)
Type of circuit	3p4w
Temperature Range	-25°C to +55°C (3K6)
Software/ Firmware Version No	SV:dd54
Identification Location	Nameplate
Bill Of Materials Number	DRT341A
IP Rating	IP51
Insulation Protective Class	Class II
LED Pulse Constant	1000 imp/kWh 400 imp/kWh
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Main Cover Sealing Type	Wire & Crimp
Integrity of meter	Inaccessible without breaking seals
Intended Location of the Meter	Indoor
Type of Register	Mechanical
Terminal Arrangement(s)	DIN
Location of Manufacturers Address	Associated Documents

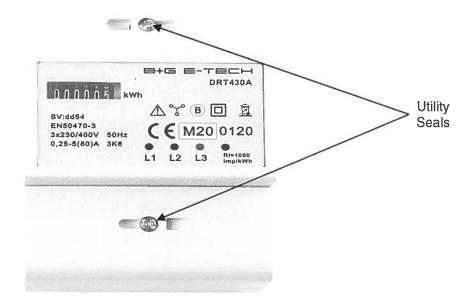


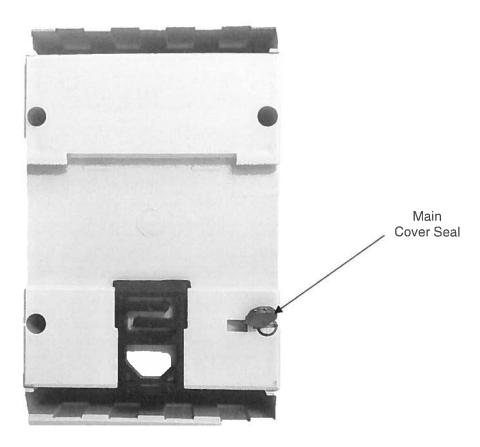
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#### 2. Photograph of Meter and Sealing Plan







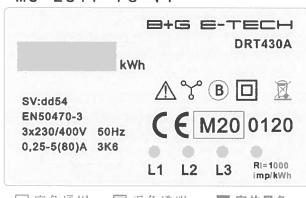
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#### 3. Examples of Nameplates





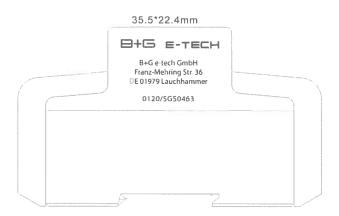
MS-2817-75-V1 按MS-2817-51-V1改 8+G E-TECH DRT430A kWh AYB □ SV:dd54 EN50470-3 3x230/400V 50Hz 0,5-10(100)A 3K6 RI=400 imp/kWh L1 L2 L3 □ 底色通用 ■ 无色透明 ■ 字体黑色

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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

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



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		Influenc	e Factors	for Tempe	rature. Fre	equency &	Voltage
Current	PF Cos	-25°C	-10°C	5°C	23°C	40°C	55°C
Imin	1.0	0.8	0.8	0.7	0.7	0.7	0.8
ltr	1.0	0.7	0.6	0.5	0.5	0.5	0.6
10ltr	1.0	0.5	0.4	0.4	0.3	0.4	0.5
Imax	1.0	0.5	0.5	0.5	0.5	0.5	0.5
Itr	0.5ind	0.6	0.5	0.5	0.4	0.5	0.5
10ltr	0.5ind	0.4	0.3	0.2	0.1	0.2	0.4
Imax	0.5ind	0.3	0.3	0.3	0.3	0.3	0.3
Itr	0.8cap	0.8	0.7	0.7	0.7	0.7	0.7
10ltr	0.8cap	0.6	0.5	0.5	0.5	0.5	0.5
Imax	0.8cap	0.2	0.2	0.2	0.2	0.2	0.2
L1							:
ltr	1.0	0.5	0.4	0.3	0.2	0.3	0.4
10ltr	1.0	0.4	0.3	0.2	0.2	0.2	0.4
Imax	1.0	0.3	0.3	0.2	0.2	0.2	0.3
ltr	0.5ind	0.4	0.3	0.2	0.2	0.2	0.3
10ltr	0.5ind	0.4	0.2	0.2	0.2	0.2	0.5
Imax	0.5ind	0.6	0.5	0.5	0.5	0.5	0.5
L2							
ltr	1.0	0.7	0.6	0.6	0.5	0.6	0.6
10ltr	1.0	0.4	0.3	0.3	0.2	0.2	0.4
Imax	1.0	0.2	0.2	0.2	0.2	0.2	0.2
ltr	0.5ind	0.8	0.6	0.6	0.5	0.6	0.7
10ltr	0.5ind	0.4	0.2	0.2	0.2	0.2	0.5
Imax	0.5ind	0.2	0.2	0.2	0.2	0.2	0.2
L3							
ltr	1.0	0.5	0.4	0.3	0.3	0.3	0.5
10ltr	1.0	0.5	0.3	0.3	0.2	0.3	0.4
Imax	1.0	0.4	0.3	0.2	0.1	0.2	0.4
Itr	0.5ind	0.5	0.3	0.3	0.2	0.3	0.4
10ltr	0.5ind	0.5	0.5	0.5	0.5	0.5	0.5
Imax	0.5ind	0.2	0.2	0.2	0.2	0.2	0.2



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#### 5. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter	Description of meter		
DRT430A	3 x 230/400V, 0,25-5(80)A polyphase kWh energy meter 3 x 230/400V, 0,5-10(100)A polyphase kWh energy meter	12		

Modifications to the meter(s) described according to approval No.0120/SGS0463 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	01/07/2020	Initial Issue

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