EC Type Examination Certificate Number: **0120/SGS0199**

Itron Metering Solutions UK Ltd

Design Centre
Langer Road
Felixstowe
IP11 2ER

Manufacturing Centre
Itron-Ganz Meter Company Ltd
Tancsics M. u.11
P.O.B. 396
H-2101 Gödöllõ
Hungary

Instrument Identification:
ACE9000 KBD

Single Phase, Pre payment, Active Import (kWh), Electricity Meter

Instrument Traceable Number
0120/ SGS0199
has been assessed and certified as meeting the requirements of

EC 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 EC 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 for 10 years from 11th July 2016 until 10th July 2026
Issue 1

Certification is based on report number(s) EMA194130/1/MID Issued 4th July 2016

Authorised Signature

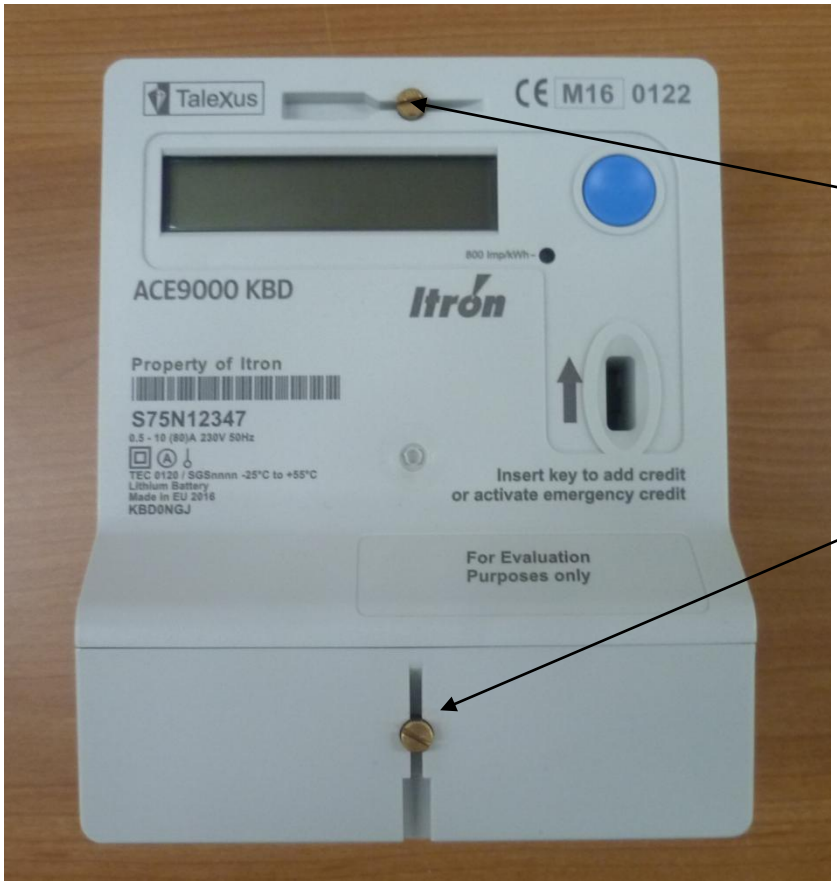
SGS United Kingdom Limited, Notified Body 0120
Unit 202B Worle Parkway, Weston-super-Mare, BS22 6WA□UK
t +44 (0)1934 522917 f +44 (0)1934 522137 www.sgs.com

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

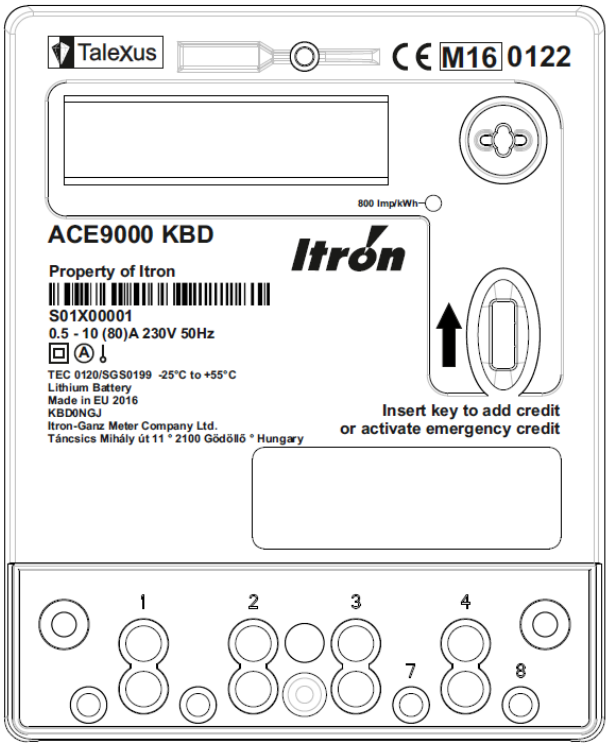
1. Technical Data

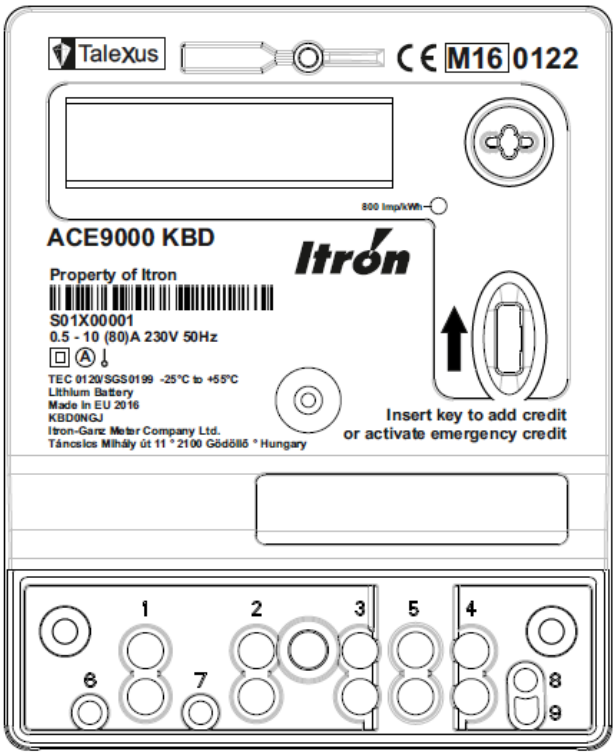
Manufacturer	Itron Metering Solutions UK Ltd
Meter Type(s)	ACE9000 KBD
Voltage Rating *(Un)*	230V
Current Rating *(Imin – Iref (Imax))*	0,5-10(80)A
Frequency *(Fn)*	50Hz
Active Accuracy Class *(kWh)*	B (kWh)
Type of circuit	1p2w
Temperature Range	-25°C to +55°C
Software/ Firmware Version No. **CRC Version No.** **Software Identification Location**	V03.10 CRC857C LCD
Bill Of Materials No's	ACE AD KBD BOM 08072016
IP Rating	IP51
Insulation Protective Class	Class II
LED Pulse Constant	800 imp/ kWh
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Main Cover Sealing Type	Wire & Crimp
Terminal Cover Sealing Type	Wire & Crimp
Integrity of meter	Inaccessible without breaking seals
Intended Location of the Meter	Indoor
Type of Register	LCD

2. Photograph of Meter and Sealing Plan



3. Nameplate Drawings





4. Influence factors for temperature, frequency and voltage

Current	PF Cos	-25°C	-10°C	5°C	30°C	40°C	55°C
Imin	1.0	***0.49***	***0.33***	***0.24***	***0.06***	***0.14***	***0.33***
Itr	1.0	***0.53***	***0.36***	***0.22***	***0.05***	***0.14***	***0.27***
10Itr	1.0	***0.49***	***0.34***	***0.19***	***0.05***	***0.14***	***0.27***
Imax	1.0	***0.43***	***0.33***	***0.21***	***0.10***	***0.12***	***0.21***
Itr	0.5ind	***0.48***	***0.34***	***0.22***	***0.13***	***0.20***	***0.35***
10Itr	0.5ind	***0.46***	***0.33***	***0.19***	***0.07***	***0.18***	***0.32***
Imax	0.5ind	***0.42***	***0.33***	***0.21***	***0.04***	***0.11***	***0.24***
Itr	0.8cap	***0.53***	***0.36***	***0.21***	***0.08***	***0.13***	***0.24***
10Itr	0.8cap	***0.48***	***0.32***	***0.17***	***0.06***	***0.14***	***0.24***
Imax	0.8cap	***0.39***	***0.28***	***0.18***	***0.04***	***0.09***	***0.18***

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The table above 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
$\delta e(U, I, \cos\varphi)$ = Additional error due to variation of the voltage at the same load
$\delta e(f, I, \cos\varphi)$ = Additional error due to variation of the frequency at the same load

5. Annex of Variants

Product Variant Identification Details:

Type Designation	**Description of meter**
ACE9000 KBD	Single Phase, Pre payment, Active Import (kWh) 230V, 0.5-10(80)A, 50 Hz

Modifications to the meter(s) described according to approval No.**0120/ SGS0199** must be notified to the issuing body to confirm the meter(s) continuing compliance to the relevant pattern approval standard(s).

6. Document Revision History

Issue	Date	Comments
1	11/07/2016	Initial Issue