



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx EPS 15.0042X**

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Certificate history:

Status: **Current**

Issue No: 1

Issue 0 (2016-02-01)

Date of Issue: **2020-10-20**

Applicant: **smart-TEC GmbH & Co. KG**
Kolpingring 3
82041 Oberhaching
Germany

Equipment: **RFID Tags types smart-DOME Freestyle Ex and smart-DOME Classic Ex**

Optional accessory:

Type of Protection: **ia**

Marking: **Ex ia IIC T6/T4 Gb**
Ex ia IIIC T80°C/T130°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 15.0042X**

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Date of issue: **2020-10-20**

Issue No: 1

Manufacturer: **smart-TEC GmbH & Co. KG**
Kolpingring 3
82041 Oberhaching
Germany

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
Edition: 6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/EPS/ExTR16.0003/02

Quality Assessment Report:

DE/EPS/QAR16.0001/03



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Date of issue: **2020-10-20**

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Passive RFID-Tags. Rated frequencies:
(13.37 ± 0.35) MHz or 125 kHz or 860-960 MHz

SPECIFIC CONDITIONS OF USE: YES as shown below:

Maximum operating temperatur range:

-55°C to +70°C (T6 / T80°C)

-55°C to 110°C (T4 / T130°C)

The RFID-tags shall never be exposed to high electromagnetic field strenghts according to IEC 60079-14.
Electrostatic charges shall be avoided. The tags shall never be used next to strong charge generating processes.



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Date of issue: **2020-10-20**

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
standards raised and addition of new temperature-class temperature.

(1) EU - Baumusterprüfbescheinigung

(2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen –
Richtlinie 2014/34/EU

(3) EU - Baumusterprüfbescheinigungsnummer

EPS 15 ATEX 1 1011 X

Revision 1

(4) Gerät: RFID Tags Typ smart-DOME Freestyle Ex und smart-DOME Classic Ex

(5) Hersteller: smart-TEC GmbH & Co. KG

(6) Anschrift: Kolpingring 3
82041 Oberhaching
Deutschland

(7) Die Bauart dieses Gerätes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser EU - Baumusterprüfbescheinigung festgelegt.

(8) Bureau Veritas Consumer Products Services Germany GmbH bescheinigt als benannte Stelle Nr. 2004 nach Artikel 21 der Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014 die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Geräten und Schutzsystemen zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie. Die Ergebnisse der Prüfung sind in der vertraulichen Dokumentation unter der Referenznummer 15TH0139 festgelegt.

(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit:

EN IEC 60079-0:2018

EN 60079-11:2012

(10) Falls das Zeichen „X“ hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Gerätes in der Anlage zu dieser Bescheinigung hingewiesen.

(11) Diese EU - Baumusterprüfbescheinigung bezieht sich nur auf Konzeption und Prüfung des festgelegten Gerätes gemäß Richtlinie 2014/34/EU. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Inverkehrbringen dieses Gerätes. Diese Anforderungen werden nicht durch diese Bescheinigung abgedeckt.

(12) Die Kennzeichnung des Gerätes muss die folgenden Angaben enthalten:



II 2G Ex ia IIC T6/T4 Gb

II 2D Ex ia IIIC T80°C/T130°C Db

Zertifizierungsstelle Explosionsschutz

H. Scharfer

Hamburg, 20.10.2020



(13)

Anlage

(14) EU - Baumusterprüfbescheinigung EPS 15 ATEX 1 1011 X

Revision 1

(15) Beschreibung des Gerätes:

Passive RFID Tags / Transponder

Elektrische Daten:

Betriebsfrequenz: (13,37±0,35) MHz / 125 kHz / 860-960 MHz. Die maximalen Feldstärken, siehe besondere Bedingungen sowie die Bedienungsanleitung, müssen strikt eingehalten werden.

(16) Referenznummer: 15TH0139

(17) Besondere Bedingungen:

Maximaler Betriebstemperaturbereich:

-55°C bis +70°C (T6 / T80°C)

-55°C bis +110°C (T4 / T130°C)

Die RFID-Tags dürfen nicht benutzt werden in einer Umgebung mit hohen elektromagnetischen Feldstärken entsprechend EN 60079-14:2014.

Elektrostatische Aufladungen müssen vermieden werden. Das Gerät darf nicht in der Nähe stark ladungserzeugender Prozesse verwendet werden.

(18) Grundlegende Sicherheits- und Gesundheitsanforderungen:

Durch Übereinstimmung mit Normen abgedeckt.



Hamburg, 20.10.2020



(1) UK - Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres –
UKSI 2016:1107 (as amended)

(3) UK - Type Examination Certificate Number

EPS 22 UKEX 1 086 X

Revision 0

(4) Equipment: RFID Tags types smart-DOME Freestyle Ex and smart-DOME Classic Ex

(5) Manufacturer: smart-TEC GmbH & Co. KG

(6) Address: Kolpingring 3
82041 Oberhaching
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services United Kingdom Limited, approved body No. 8507 in accordance with UKSI 2016:1107 (as amended) Part 4, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Schedule 1 of UKSI 2016:1107 (as amended). The examination and test results are recorded in the confidential documentation under the reference number 15TH0139.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-11:2012

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This UK - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2G Ex ia IIC T6/T4 Gb

II 2D Ex ia IIIC T80°C/T130°C Db

Certification department of explosion protection

Warrington, 2022-06-15

Natalie Wilkinson

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services United Kingdom Limited. EPS 22 UKEX 1 086 X, Revision 0.

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Registered in England & Wales
Company Number: 00852439

ZERT-0003-GBR-ZE-EX-V03 / TEMP-0003-GBR-ZE-EX-V01



(13)

Annex

(14) **UK - Type Examination Certificate EPS 22 UKEX 1 086 X**

Revision 0

(15) Description of equipment:

Passive RFID-Tags.

Electrical data:

Rated frequencies: (13.37 ± 0.35) MHz or 125 kHz or 860 – 960 MHz. The maximum field strengths according to the Instruction manual and the Special conditions for safe use below need to be strictly followed.

(16) Reference number: 15TH0139

(17) Special conditions for safe use:

Maximum ambient temperature range:

-55 °C to +80 °C (T6 / T80 °C)
-55 °C to +110 °C (T4 / T130 °C)

The RFID-tags shall never be exposed to high electromagnetic field strengths exceeding RMS values of 1 A/m or 3 V/m e.g. in high current electrolysis plants.

Electrostatic charges shall be avoided. The tags shall never be used next to strong charge generating processes.

(18) Essential health and safety requirements:

Met by compliance with standards.



Warrington, 2022-06-15

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