



# 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](http://www.iecex.com)

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Status: **Current** Issue No: 0

Date of Issue: 2020-07-24

Applicant: **Pepperl+Fuchs SE**  
Lilienthalstrasse 200  
68307 Mannheim  
Germany

Equipment: **Speaker RSM-Ex 01 BT \*, \*= Z0 or Z2**

Optional accessory:

Type of Protection: **Intrinsic safety "i"**

Marking: Ex ia IIC T4 Ga or Ex ic IIC T4 Gc X  
Ex ia IIIC T135°C Db IP64 or Ex ic IIIC T135°C Dc IP64 X  
Ex ia I Ma

Approved for issue on behalf of the IECEx  
Certification Body:

**Kai Willamowski**

Position:

**Head of department Certification Body**

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany





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Manufacturer: **ECOM Instruments GmbH**  
Industriestrasse 2  
97959 Assamstadt  
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/IBE/ExTR20.0006/00](#)

Quality Assessment Report:

[DE/PTB/QAR06.0008/13](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The RSM-Ex 01 BT \* is an intrinsically safe remote speaker microphone. The connection to the smartphone or further audio sources is realized via bluetooth. It is a hand held device. The mounting on the user via belt clip is also possible. Power is supplied by a Li-ion battery, which is permanently installed in the device. Charging must take place outside the hazardous locations. Optionally, approved headsets can be used with this device.

### Technical data:

Ambient temperature range:	from -20 °C to +60 °C
Degree of ingress protection:	IP64
Power supply	Li-ION secundar cell (permanently installed)
Nominal voltage:	3.7 V
Nominal capacity:	2200 mAh
Bluetooth interface Max. HF-power:	10 mW

The RSM-Ex 01 BT \* has a jack connector where a headset can be connected. Following headsets are approved and allowed to be connected to RSM-Ex 01 BT \*:

- ComCom Ex and additional in-ear plug Serenity SPC Ex
- RSM HS 01 -W
- RSM HS 01 -B

The approved headsets are allowed to connected and disconnected directly inside the Ex-area.

Further accessories: - Handstrap  
- Retractable Lanyard RL ID01

### **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- Do not charge the device inside the Ex-area.
- Do not open for any reason
- It must be ensured that the maximum input voltage (Um) for the device from the charger between the lines is 6 V.
- The ambient temperature during the charging shall be in the range from 0 °C to +45 °C.
- When using the device with Retractable Lanyard RL ID01 avoid strong charge generating processes.

### For using in mining zone only

- The device must be protected against strong impacts for Group I.
- The device must be protected against the constant contact with oils, hydraulic liquids and fats.