



# 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)

Certificate No.: **IECEx EPS 16.0019X**

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Certificate history:

Status: **Current**

Issue No: 2

[Issue 1 \(2016-07-11\)](#)

[Issue 0 \(2016-03-17\)](#)

Date of Issue: 2022-05-04

Applicant: **ECOM Instruments GmbH**  
Industriestrasse 2  
97959 Assamstadt  
**Germany**

Equipment: **Loc-Ex 01**

Optional accessory:

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

Marking: Ex ia IIC T4 Gb IP64

Ex ia IIIC T125°C Db IP64

Approved for issue on behalf of the IECEx  
Certification Body:

**Ulrich Feike**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

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:

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





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Manufacturer: **ECOM Instruments GmbH**  
Industriestrasse 2  
97959 Assamstadt  
**Germany**

Manufacturing  
locations: **ECOM Instruments GmbH**  
Industriestrasse 2  
97959 Assamstadt  
**Germany**

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/ExTR16.0019/02](#)

Quality Assessment Report:

[DE/PTB/QAR06.0008/16](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Bluetooth Beacon Loc-Ex 01 periodically emits a signal that can be recognized by other devices over distances up to 200 m. The beacon signals can be evaluated by mobile devices via individual applications. The Loc-Ex 01 is designed for fixed installation in hazardous areas, both indoor and outdoor.

Permitted accessories: Mounting Plate MP L01.

## Electrical data:

Two batteries in parallel, type Thionyl chloride, not rechargeable.

Battery output:  $U_o = 3.6 \text{ V}$  (nominal) and  $U_o = 3.9 \text{ V}$  (free wheeling)

Resistor-limited output power:  $P_o = 135 \text{ mW}$

The batteries shall only be replaced outside hazardous areas and only by battery types approved by the manufacturer.

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

Maximum ambient temperature range:  $-20 \text{ }^{\circ}\text{C}$  to  $+55 \text{ }^{\circ}\text{C}$ .



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

QAR changed, latest revisions of standards.