



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEX EPS 16.0019X	Issue No: 1	<u>Certificate history:</u> Issue No. 1 (2016-07-11) Issue No. 0 (2016-03-17)
Status:	Current	Page 1 of 4	
Date of Issue:	2016-07-11		
Applicant:	ecom instruments GmbH Industriestr. 2 97959 Assamstadt Germany		
Equipment:	Loc-Ex 01		
Optional accessory:			
Type of Protection:	intrinsic safety		
Marking:	Ex ia IIC T4 Gb IP64 Ex ia IIIC T125°C Db IP64		

Approved for issue on behalf of the IECEx
Certification Body:

Dieter Zitzmann

Position:

Manager Certification

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 the Official IECEx Website.

Certificate issued by:

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





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Manufacturer: ecom instruments GmbH
Industriestr. 2
97959 Assamstadt
Germany

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate does not indicate compliance with electrical 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/ExTR16.0019/01](#)

Quality Assessment Report:

[DE/PTB/QAR07.0004/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Bluetooth Beacon Loc-Ex 01 periodically emits signals 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:

2 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.

CONDITIONS OF CERTIFICATION: 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):

Addition of dust protection.